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OM nucleic - nucleic search, using sw model

Run on: February 7, 2006, 14:34:40 ; Search time 7 Seconds  
(without alignments)  
3.186 Million cell updates/sec

Title: rrpcp2858  
Perfect score: 2858  
Sequence: 1 GGGCCCTCTCTGCTTTCTTCT.....GGGGTCACTGCTTCACTAGC 2858

Scoring table: IDENTITY NUC  
Gapop 10\_0 , Gapext 0.5

Searched: 200 seqs, 3902 residues

Total number of hits satisfying chosen parameters: 400

Minimum DB seq length: 8  
Maximum DB seq length: 80

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 206 summaries

Database : fetchrni.seq.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	40.2	1.4	45	1	US-09-336-643A-55
2	38.6	1.4	45	1	US-09-336-643A-49
3	38.6	1.4	45	1	US-09-336-643A-53
4	38.6	1.4	45	1	US-09-336-643A-58
5	37	1.3	45	1	US-09-336-643A-56
6	37	1.3	45	1	US-09-336-643A-57
7	26.8	0.9	30	1	US-08-068-747-4
8	26.8	0.9	30	1	US-08-589-109A-12
9	25.4	0.9	28	1	US-08-993-008A-1
10	23.8	0.8	28	1	US-08-993-008A-2
11	23.8	0.8	28	1	US-08-993-008A-3
12	20.2	0.7	25	1	PCT-US93-06828-3
13	20.2	0.7	25	1	US-08-374-144-3
14	20.2	0.7	25	1	US-08-775-164-3
15	20.2	0.7	25	1	US-08-775-607-3
16	20.2	0.7	25	1	US-08-775-609-3
17	18.8	0.7	22	1	US-07-955-916-2
18	17.8	0.6	21	1	PCT-US95-07349-5
19	17.8	0.6	21	1	US-08-486-343A-5
20	17.8	0.6	21	1	US-08-863-639A-41
21	17.8	0.6	21	1	US-08-863-639A-52
22	17.8	0.6	21	1	US-08-863-639A-53
23	17.8	0.6	21	1	US-08-863-639A-55
24	17.8	0.6	21	1	US-08-863-639A-56
25	17.8	0.6	21	1	US-08-863-639A-59
26	17.8	0.6	21	1	US-08-863-639A-64
27	17.8	0.6	21	1	US-08-863-639A-70
28	17.8	0.6	21	1	US-08-863-639A-78
29	17.8	0.6	21	1	US-08-863-639A-83
30	17.8	0.6	21	1	US-09-245-169-7
31	17.8	0.6	21	1	US-10-085-849-7
32	17.4	0.6	19	1	US-08-117-952-681
33	17.4	0.6	19	1	US-09-935-338-164
34	17.4	0.6	19	1	US-09-935-338-166
35	16.8	0.6	20	1	US-09-661-753-35
36	16.8	0.6	20	1	US-09-030-701-65
37	16.8	0.6	20	1	US-09-082-649B-55
38	16.8	0.6	20	1	US-09-082-649B-57
39	16.8	0.6	20	1	US-09-197-951-2
40	16.8	0.6	20	1	US-09-672-126B-134
41	16.8	0.6	20	1	US-09-965-101-55
42	16.8	0.6	20	1	US-09-965-101-57
43	16.8	0.6	21	1	US-07-873-915A-3
44	16.8	0.6	21	1	US-08-117-952-682
45	16.8	0.6	21	1	US-08-257-964-3
46	16.8	0.6	21	1	US-08-267-803B-66
47	16.8	0.6	21	1	US-08-416-214A-11
48	16.8	0.6	21	1	US-08-863-639A-11
49	16.8	0.6	21	1	US-08-863-639A-12
50	16.8	0.6	21	1	US-08-863-639A-40
51	16.8	0.6	21	1	US-08-863-639A-66
52	16.8	0.6	21	1	US-08-863-639A-67
53	16.8	0.6	21	1	US-08-863-639A-69
54	16.8	0.6	21	1	US-08-863-639A-71
55	16.8	0.6	21	1	US-08-863-639A-87
56	16.8	0.6	21	1	US-09-360-237-8
57	16.8	0.6	21	1	US-09-733-444-13
58	16.4	0.6	18	1	US-09-673-298A-25
59	16.4	0.6	20	1	US-09-420-692A-51
60	16.4	0.6	20	1	US-09-593-711A-152
61	16.4	0.6	20	1	US-09-755-004-10
62	16.4	0.6	20	1	US-09-780-173A-93
63	16.4	0.6	20	1	US-09-850-514-44
64	16.4	0.6	20	1	US-08-850-514-45
65	16	0.6	17	1	US-08-325-955-2
66	16	0.6	17	1	US-09-343-698-2
67	16	0.6	19	1	US-08-410-540-5
68	16	0.6	19	1	US-09-060-239-247
69	16	0.6	19	1	US-09-402-923A-247
70	16	0.6	45	1	US-09-336-643A-57
71	15.8	0.6	19	1	US-07-936-110-2
72	15.8	0.6	19	1	US-07-777-918-2
73	15.8	0.6	19	1	US-09-823-549-44
74	15.4	0.5	17	1	US-08-367-069-17
75	15.4	0.5	17	1	US-08-373-124A-178
76	15.4	0.5	17	1	US-08-390-850-487
77	15.4	0.5	17	1	US-08-390-850-563
78	15.4	0.5	17	1	US-08-435-628-178
79	15.4	0.5	17	1	US-08-435-634-487
80	15.4	0.5	17	1	US-08-435-634-563
81	15.4	0.5	17	1	US-08-885-126-3
82	15.4	0.5	17	1	US-08-960-111-5
83	15.4	0.5	17	1	US-09-490-774-5
84	15.4	0.5	18	1	US-08-170-095B-31
85	15.4	0.5	18	1	US-08-319-492B-737
86	15.4	0.5	18	1	US-08-396-866-31
87	15.4	0.5	18	1	US-08-679-645-1165
88	15.4	0.5	18	1	US-08-857-946-14
89	15.4	0.5	18	1	US-08-863-639A-17
90	15.4	0.5	18	1	US-08-970-740-14
91	15.4	0.5	18	1	US-09-500-700-68
92	15.4	0.5	18	1	US-09-920-760-24
93	15	0.5	17	1	US-08-373-124A-176
94	15	0.5	17	1	US-08-435-628-176
95	15	0.5	17	1	US-08-809-713-3
96	14.8	0.5	18	1	PCT-US94-10261A-10
97	14.8	0.5	18	1	PCT-US96-11786-42
98	14.8	0.5	18	1	PCT-US96-11786-43
99	14.8	0.5	18	1	US-08-145-704-42
100	14.8	0.5	18	1	US-08-145-704-43
101	14.8	0.5	18	1	US-08-358-556A-24
102	14.8	0.5	18	1	US-08-462-646-110
103	14.8	0.5	18	1	US-08-462-646-30
104	14.8	0.5	18	1	US-08-479-852-110
105	14.8	0.5	18	1	US-08-479-852-30
106	14.8	0.5	18	1	US-08-535-168-42

Sequence 166, Appl  
Sequence 35, Appl  
Sequence 65, Appl  
Sequence 55, Appl  
Sequence 57, Appl  
Sequence 2, Appl  
Sequence 134, Appl  
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Sequence 3, Appl  
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Sequence 69, Appl  
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Sequence 25, Appl  
Sequence 51, Appl  
Sequence 152, Appl  
Sequence 10, Appl  
Sequence 93, Appl  
Sequence 44, Appl  
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Sequence 44, Appl  
Sequence 17, Appl  
Sequence 178, Appl  
Sequence 487, Appl  
Sequence 563, Appl  
Sequence 178, Appl  
Sequence 487, Appl  
Sequence 563, Appl  
Sequence 5, Appl  
Sequence 5, Appl  
Sequence 31, Appl  
Sequence 737, Appl  
Sequence 31, Appl  
Sequence 1165, Appl  
Sequence 14, Appl  
Sequence 14, Appl  
Sequence 14, Appl  
Sequence 24, Appl  
Sequence 68, Appl  
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Sequence 176, Appl  
Sequence 176, Appl  
Sequence 3, Appl  
Sequence 10, Appl  
Sequence 42, Appl  
Sequence 43, Appl  
Sequence 43, Appl  
Sequence 24, Appl  
Sequence 110, Appl  
Sequence 30, Appl  
Sequence 110, Appl  
Sequence 30, Appl  
Sequence 42, Appl





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; Sequence 49, Application US/09336643A
; Patent No. 6399761
; GENERAL INFORMATION:
; APPLICANT: Miller, Andrew P.
; APPLICANT: Curran, Mark Edward
; APPLICANT: Hu, Ping
; APPLICANT: Rutter, Marc
; APPLICANT: Wang, Jian-Wang
; TITLE OF INVENTION: No. 6399761el Human Potassium Channels
; FILE REFERENCE: SEQ-15P
; CURRENT APPLICATION NUMBER: US/09/336,643A
; PRIOR FILING DATE: 1999-06-18
; PRIOR APPLICATION NUMBER: 60/076,687
; PRIOR FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: 60/116,448
; PRIOR FILING DATE: 1999-01-19
; PRIOR APPLICATION NUMBER: PCT/US99/03826
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 49
; LENGTH: 45
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-09-336-643A-49

Query Match          1.4%; Score 38.6; DB 1; Length 45;
Best Local Similarity 91.1%; Pred. No. 0.41;
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1684 TGGTGGGCTGTGGTCACCATGACAACTGTGGCTATGGGACATG 1728
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Db 1 TGGTGGGCTGTGGTCACCATGACAACTGTGGCTATGGGACATG 45

RESULT 3
US-09-336-643A-53
; Sequence 53, Application US/09336643A
; Patent No. 6399761
; GENERAL INFORMATION:
; APPLICANT: Miller, Andrew P.
; APPLICANT: Curran, Mark Edward
; APPLICANT: Hu, Ping
; APPLICANT: Rutter, Marc
; APPLICANT: Wang, Jian-Wang
; TITLE OF INVENTION: No. 6399761el Human Potassium Channels
; FILE REFERENCE: SEQ-15P
; CURRENT APPLICATION NUMBER: US/09/336,643A
; PRIOR FILING DATE: 1999-06-18
; PRIOR APPLICATION NUMBER: 60/076,687
; PRIOR FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: 60/116,448
; PRIOR FILING DATE: 1999-01-19
; PRIOR APPLICATION NUMBER: PCT/US99/03826
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 53
; LENGTH: 45
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-09-336-643A-53

Query Match          1.4%; Score 38.6; DB 1; Length 45;
Best Local Similarity 91.1%; Pred. No. 0.41;
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1684 TGGTGGGCTGTGGTCACCATGACAACTGTGGCTATGGGACATG 1728
|||||
Db 1 TGGTGGGCTGTGGTCACCATGACAACTGTGGCTATGGGACATG 45

RESULT 4
US-09-336-643A-58
; Sequence 58, Application US/09336643A
; Patent No. 6399761
; GENERAL INFORMATION:
; APPLICANT: Miller, Andrew P.
; APPLICANT: Curran, Mark Edward
; APPLICANT: Hu, Ping
; APPLICANT: Rutter, Marc
; APPLICANT: Wang, Jian-Wang
; TITLE OF INVENTION: No. 6399761el Human Potassium Channels
; FILE REFERENCE: SEQ-15P
; CURRENT APPLICATION NUMBER: US/09/336,643A
; PRIOR FILING DATE: 1999-06-18
; PRIOR APPLICATION NUMBER: 60/076,687
; PRIOR FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: 60/116,448
; PRIOR FILING DATE: 1999-01-19
; PRIOR APPLICATION NUMBER: PCT/US99/03826
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 58
; LENGTH: 45
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-09-336-643A-58

Query Match          1.4%; Score 38.6; DB 1; Length 45;
Best Local Similarity 91.1%; Pred. No. 0.41;
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1684 TGGTGGGCTGTGGTCACCATGACAACTGTGGCTATGGGACATG 1728
|||||
Db 1 TGGTGGGCTGTGGTCACCATGACAACTGTGGCTATGGGACATG 45

RESULT 5
US-09-336-643A-56
; Sequence 56, Application US/09336643A
; Patent No. 6399761
; GENERAL INFORMATION:
; APPLICANT: Miller, Andrew P.
; APPLICANT: Curran, Mark Edward
; APPLICANT: Hu, Ping
; APPLICANT: Rutter, Marc
; APPLICANT: Wang, Jian-Wang
; TITLE OF INVENTION: No. 6399761el Human Potassium Channels
; FILE REFERENCE: SEQ-15P
; CURRENT APPLICATION NUMBER: US/09/336,643A
; PRIOR FILING DATE: 1999-06-18
; PRIOR APPLICATION NUMBER: 60/076,687
; PRIOR FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: 60/116,448
; PRIOR FILING DATE: 1999-01-19
; PRIOR APPLICATION NUMBER: PCT/US99/03826
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 56
; LENGTH: 45
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-09-336-643A-56

Query Match          1.3%; Score 37; DB 1; Length 45;
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QY 273 CCTCTCTCTCTCCACCACCTCTCTCTCT 302  
Db 1 CCTCTCTCTCTCTCTCTCTCTCTCTCTCT 30

## RESULT 9

US-08-993-008A-1/c  
; Sequence 1, Application US/08993008A  
; Patent No. 6153596  
; GENERAL INFORMATION:  
; APPLICANT: Liotta, Dennis C.  
; APPLICANT: Petros, John A.  
; APPLICANT: Wey, Shioh-Jyi  
; APPLICANT: Karr, Joan F.  
; APPLICANT: Pohl, Jan  
; TITLE OF INVENTION: Polycationic Oligomers  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Greenlee, Winner and Sullivan  
; STREET: 5370 Manhattan Circle, Suite 201  
; CITY: Boulder  
; STATE: CO  
; COUNTRY: US  
; ZIP: 80303  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/993,008A  
; FILING DATE: 18-DEC-1997  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/032,436  
; FILING DATE: 18-DEC-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Sullivan, Sally A.  
; REGISTRATION NUMBER: 32,064  
; REFERENCE/DOCKET NUMBER: 33-95  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 303-499-8080  
; TELEFAX: 303-499-8089  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 28 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: other nucleic acid  
; DESCRIPTION: /desc = "Oligonucleotide"  
; HYPOTHETICAL: NO  
US-08-993-008A-1

Query Match 0.9%; Score 25.4; DB 1; Length 28;  
Best Local Similarity 96.3%; Pred. No. 9.7;  
Matches 26; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 275 TCCTCTCTCTCCACCACCTCTCTCTCC 301  
Db 28 TCCTCTCTCTCTCCACCACCTCTCTCTCC 2

## RESULT 10

US-08-993-008A-2/c  
; Sequence 2, Application US/08993008A  
; Patent No. 6153596  
; GENERAL INFORMATION:  
; APPLICANT: Liotta, Dennis C.  
; APPLICANT: Petros, John A.  
; APPLICANT: Wey, Shioh-Jyi  
; APPLICANT: Karr, Joan F.  
; APPLICANT: Pohl, Jan

; TITLE OF INVENTION: Polycationic Oligomers  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Greenlee, Winner and Sullivan  
; STREET: 5370 Manhattan Circle, Suite 201  
; CITY: Boulder  
; STATE: CO  
; COUNTRY: US  
; ZIP: 80303  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/993,008A  
; FILING DATE: 18-DEC-1997  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/032,436  
; FILING DATE: 18-DEC-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Sullivan, Sally A.  
; REGISTRATION NUMBER: 32,064  
; REFERENCE/DOCKET NUMBER: 33-95  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 303-499-8080  
; TELEFAX: 303-499-8089  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 28 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: unknown  
; MOLECULE TYPE: DNA (genomic)  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO  
US-08-993-008A-2

Query Match 0.8%; Score 23.8; DB 1; Length 28;  
Best Local Similarity 92.6%; Pred. No. 16;  
Matches 25; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 276 CCTCTCTCTCCACCACCTCTCTCTCTCT 302  
Db 27 CCTCTCTCTCCACCACCTCTCTCTCTCTCT 1

## RESULT 11

US-08-993-008A-3  
; Sequence 3, Application US/08993008A  
; Patent No. 6153596  
; GENERAL INFORMATION:  
; APPLICANT: Liotta, Dennis C.  
; APPLICANT: Petros, John A.  
; APPLICANT: Wey, Shioh-Jyi  
; APPLICANT: Karr, Joan F.  
; APPLICANT: Pohl, Jan  
; TITLE OF INVENTION: Polycationic Oligomers  
; NUMBER OF SEQUENCES: 6  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Greenlee, Winner and Sullivan  
; STREET: 5370 Manhattan Circle, Suite 201  
; CITY: Boulder  
; STATE: CO  
; COUNTRY: US  
; ZIP: 80303  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/993,008A  
; FILING DATE: 18-DEC-1997  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/032,436  
; FILING DATE: 18-DEC-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Sullivan, Sally A.  
; REGISTRATION NUMBER: 32,064  
; REFERENCE/DOCKET NUMBER: 33-95  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 303-499-8080  
; TELEFAX: 303-499-8089  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 28 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: unknown  
; MOLECULE TYPE: DNA (genomic)  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO  
US-08-993-008A-3

Query Match 0.8%; Score 23.8; DB 1; Length 28;  
Best Local Similarity 92.6%; Pred. No. 16;  
Matches 25; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 276 CCTCTCTCTCCACCACTCTCTCTCT 302  
Db 2 CCTCTCTCTCCACCTCTCTCTCTCT 28

## RESULT 12

PCT-US93-06828-3  
; Sequence 3, Application PC/TUS9306828  
; GENERAL INFORMATION:  
; APPLICANT: Asgari, Morteza  
; APPLICANT: Bresser, Joel  
; APPLICANT: Cubbage, Michael L  
; APPLICANT: Prashad, Nagindra  
; TITLE OF INVENTION: Enriching and Identifying Fetal Cells In Maternal Blood For  
; NUMBER OF SEQUENCES: 21  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE:  
; STREET:  
; CITY:  
; STATE:  
; COUNTRY:  
; ZIP:

COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5 Floppy disk - 720 k  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: WordPerfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US93/06828  
; FILING DATE: 19930719  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME:  
; REGISTRATION NUMBER:  
; REFERENCE/DOCKET NUMBER:  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE:  
; TELEFAX:

INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 25 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear

; MOLECULE TYPE: DNA (genomic)  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO  
PCT-US93-06828-3

Query Match 0.7%; Score 20.2; DB 1; Length 25;  
Best Local Similarity 88.0%; Pred. No. 39;  
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGCGCGGC 675  
Db 1 CGGCAGCAGCGCGCGCGCGCGGC 25

## RESULT 13

US-08-374-144-3  
; Sequence 3, Application US/08374144  
; Patent No. 5629147  
; GENERAL INFORMATION:  
; APPLICANT: Arogenex, Inc.

; TITLE OF INVENTION: Enriching and Identifying Fetal Cells  
; TITLE OF INVENTION: Maternal Blood For In Situ Hybridization  
; NUMBER OF SEQUENCES: 21  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Elman Wilf & Fried  
; STREET: 20 West Third Street, P.O. Box 703  
; CITY: Media  
; STATE: PA  
; COUNTRY: USA  
; ZIP: 19063-8969

COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5 inch 720K diskette  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: WordPerfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/374,144  
; FILING DATE:  
; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:  
; NAME: Gerry J. Elman  
; REGISTRATION NUMBER: 24,404  
; REFERENCE/DOCKET NUMBER: M19-085  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 610-892-9580  
; TELEFAX: 610-892-9577

; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 25 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO  
US-08-374-144-3

Query Match 0.7%; Score 20.2; DB 1; Length 25;  
Best Local Similarity 88.0%; Pred. No. 39;  
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGCGGC 675  
Db 1 CGGCAGCAGCGCGCGCGCGGC 25

## RESULT 14

US-08-775-164-3  
; Sequence 3, Application US/08775164  
; Patent No. 576843  
; GENERAL INFORMATION:  
; APPLICANT: Arogenex, Inc.

; TITLE OF INVENTION: Enriching and Identifying Fetal Cells

NUMBER OF SEQUENCES: 21  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Elman & Associates  
STREET: 20 West Third Street, P.O. Box 1969  
CITY: Media  
STATE: PA  
COUNTRY: USA  
ZIP: 19063-8969  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 inch 720K diskette  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WordPerfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/775,164  
FILING DATE:  
CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: Gerry J. Elman  
REGISTRATION NUMBER: 24,404  
REFERENCE/DOCKET NUMBER: M19-103  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 610-892-9580  
TELEFAX: 610-892-9577  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 25 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
US-08-775-164-3

Query Match 0.7%; Score 20.2; DB 1; Length 25;  
Best Local Similarity 88.0%; Pred. No. 39;  
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGCGGC 675  
DB 1 CGGCAGCAGCGCGCGCGCGGC 25

RESULT 15  
US-08-775-607-3  
Sequence 3, Application US/08775607  
Patent No. 5861253  
GENERAL INFORMATION:  
APPLICANT: Arogenex, Inc.  
TITLE OF INVENTION: Enriching and Identifying Fetal Cells  
NUMBER OF SEQUENCES: 21  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Elman & Associates  
STREET: 20 West Third Street, P.O. Box 1969  
CITY: Media  
STATE: PA  
COUNTRY: USA  
ZIP: 19063-8969  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 inch 720K diskette  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WordPerfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/775,607  
FILING DATE:  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Gerry J. Elman  
REGISTRATION NUMBER: 24,404  
REFERENCE/DOCKET NUMBER: M19-103  
TELECOMMUNICATION INFORMATION:

TELEPHONE: 610-892-9580  
TELEFAX: 610-892-9577  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 25 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
US-08-775-607-3

Query Match 0.7%; Score 20.2; DB 1; Length 25;  
Best Local Similarity 88.0%; Pred. No. 39;  
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGCGGC 675  
DB 1 CGGCAGCAGCGCGCGCGCGGC 25

RESULT 16  
US-08-775-609-3  
Sequence 3, Application US/08775609  
Patent No. 5858649  
GENERAL INFORMATION:  
APPLICANT: Arogenex, Inc.  
TITLE OF INVENTION: Enriching and Identifying Fetal Cells  
NUMBER OF SEQUENCES: 21  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Elman & Associates  
STREET: 20 West Third Street, P.O. Box 1969  
CITY: Media  
STATE: PA  
COUNTRY: USA  
ZIP: 19063-8969  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 inch 720K diskette  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WordPerfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/775,609  
FILING DATE:  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Gerry J. Elman  
REGISTRATION NUMBER: 24,404  
REFERENCE/DOCKET NUMBER: M19-103  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 610-892-9580  
TELEFAX: 610-892-9577  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 25 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
US-08-775-609-3

Query Match 0.7%; Score 20.2; DB 1; Length 25;  
Best Local Similarity 88.0%; Pred. No. 39;  
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGCGGC 675  
DB 1 CGGCAGCAGCGCGCGCGCGGC 25

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RESULT 17
US-07-955-916-2/c
; Sequence 2, Application US/07955916
; Patent No. 5397702
; GENERAL INFORMATION:
; APPLICANT: CAHALAN, Michael D.
; APPLICANT: CHANDY, Kanianthara G.
; APPLICANT: GRISSMER, Stephen
; APPLICANT: GHANSHANI, Sanju
; APPLICANT: GUTMAN, George A.
; APPLICANT: DETHLEFS, Brent A.
; TITLE OF INVENTION: ASSAY FOR AND TREATMENT OF AUTOIMMUNE
; DISEASES
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Walter H. Dreger
; STREET: 4 Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/955,916
; FILING DATE: 19921002
; CLASSIFICATION: 436
; ATTORNEY/AGENT INFORMATION:
; NAME: Dreger, Walter H.
; REGISTRATION NUMBER: 24,190
; REFERENCE/DOCKET NUMBER: A-54474-3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 781-1989
; TELEFAX: (415) 398-3249
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 22 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; US-07-955-916-2

Query Match 0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 45;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1545 CCTGCTGCTTATCATCTTCTG 1566
Db 22 CCTGCAGCTGATCATCTTCTG 1

RESULT 18
PCT-US95-07349-5
; Sequence 5, Application PC/TUS9507349
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR MODULATING
; MORPHOGEN EXPRESSION
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PATENT ADMINISTRATOR, CREATIVE BIOMOLECULES
; INC.
; STREET: 45 SOUTH STREET
; CITY: HOPKINTON
; STATE: MA
; COUNTRY: USA
; ZIP: 07148
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/486,343A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: PITCHER, Edmund R.
; REGISTRATION NUMBER: 27,829
; REFERENCE/DOCKET NUMBER: CRP-091CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)-248-7000
; TELEFAX: (617)-248-7100
```

```
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/07349
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/938,021
; FILING DATE: 28-AUG-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: KELLEY, ROBIN D
; REGISTRATION NUMBER: 34,637
; REFERENCE/DOCKET NUMBER: CRP-091PC
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (508)-435-9001
; TELEFAX: (508)-435-0992
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1..21
; OTHER INFORMATION: /note= "WT1 HUMAN TCC BINDING SITE"
; PCT-US95-07349-5

Query Match 0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 55;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 275 TCCTCTCTCTCCACCCTCC 295
Db 1 TCCTCTCTCTCTCTCTCTCC 21

RESULT 19
US-08-486-343A-5
; Sequence 5, Application US/08486343A
; Patent No. 6071695
; GENERAL INFORMATION:
; APPLICANT: OZKAYNAK, ENGIN
; APPLICANT: OPPERMANN, HERMANN
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR MODULATING
; MORPHOGENIC PROTEIN EXPRESSION
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PATENT ADMINISTRATOR, CREATIVE BIOMOLECULES
; INC.
; STREET: 45 SOUTH STREET
; CITY: HOPKINTON
; STATE: MA
; COUNTRY: USA
; ZIP: 07148
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/486,343A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: PITCHER, Edmund R.
; REGISTRATION NUMBER: 27,829
; REFERENCE/DOCKET NUMBER: CRP-091CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)-248-7000
; TELEFAX: (617)-248-7100
```

INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 21 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: 1..21  
OTHER INFORMATION: /note= "WT1/EGR HUMAN TCC BINDING  
SITE"  
OTHER INFORMATION: SITE"  
US-08-486-343A-5

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 55;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 275 TCCTCTCTCTCCACCACTCC 295  
Db 1 TCCTCTCTCTCTCTCTCTCC 21

RESULT 20  
US-08-863-639A-41/c  
Sequence 41, Application US/08863639A  
Patent No. 5981185  
GENERAL INFORMATION:  
APPLICANT: Matson, Robert S.  
APPLICANT: Coassin, Peter J.  
APPLICANT: Rampal, Jang B.  
APPLICANT: Caskey, C. T.  
TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS  
NUMBER OF SEQUENCES: 95  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Sheldon & Mak  
STREET: 225 South Lake Avenue, 9th Floor  
CITY: Pasadena  
STATE: CA  
COUNTRY: USA  
ZIP: 91101

COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage  
COMPUTER: IBM compatible  
OPERATING SYSTEM: Windows 95  
SOFTWARE: Corel WordPerfect 8 version  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/863,639A  
FILING DATE: May 28, 1997  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Joseph E. Mueth  
REGISTRATION NUMBER: 20,532  
REFERENCE/DOCKET NUMBER: 11859-1  
TELEPHONE: (626) 796-4000  
TELEFAX: (626) 795-6321  
INFORMATION FOR SEQ ID NO: 41:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 21 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: Other nucleic acid

US-08-863-639A-41

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 55;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 273 CCTCTCTCTCTCCACCACT 293  
Db 21 CCTCTCTCTCTCTCTCTCT 1

RESULT 21  
US-08-863-639A-52/c  
Sequence 52, Application US/08863639A  
Patent No. 5981185  
GENERAL INFORMATION:  
APPLICANT: Matson, Robert S.  
APPLICANT: Coassin, Peter J.  
APPLICANT: Rampal, Jang B.  
APPLICANT: Caskey, C. T.  
TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS  
NUMBER OF SEQUENCES: 95  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Sheldon & Mak  
STREET: 225 South Lake Avenue, 9th Floor  
CITY: Pasadena  
STATE: CA  
COUNTRY: USA  
ZIP: 91101

COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage  
COMPUTER: IBM compatible  
OPERATING SYSTEM: Windows 95  
SOFTWARE: Corel WordPerfect 8 version  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/863,639A  
FILING DATE: May 28, 1997  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Joseph E. Mueth  
REGISTRATION NUMBER: 20,532  
REFERENCE/DOCKET NUMBER: 11859-1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (626) 796-4000  
TELEFAX: (626) 795-6321  
INFORMATION FOR SEQ ID NO: 52:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 21 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: Other nucleic acid

US-08-863-639A-52

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 55;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 651 CGGCAGCAGCGCGCGCGCGG 671  
Db 21 CGGCAGCAGCGCGCGCGCGG 1

RESULT 22  
US-08-863-639A-53  
Sequence 53, Application US/08863639A  
Patent No. 5981185  
GENERAL INFORMATION:  
APPLICANT: Matson, Robert S.  
APPLICANT: Coassin, Peter J.  
APPLICANT: Rampal, Jang B.  
APPLICANT: Caskey, C. T.  
TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS  
NUMBER OF SEQUENCES: 95  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Sheldon & Mak  
STREET: 225 South Lake Avenue, 9th Floor  
CITY: Pasadena  
STATE: CA  
COUNTRY: USA  
ZIP: 91101

COMPUTER READABLE FORM:

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;
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: Corel WordPerfect 8 version
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/863,639A
; FILING DATE: May 28, 1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Joseph E. Mueth
; REGISTRATION NUMBER: 20,532
; REFERENCE/DOCKET NUMBER: 11859-1
; TELEPHONE: (626) 796-4000
; TELEFAX: (626) 795-6321
; INFORMATION FOR SEQ ID NO: 53:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid
; US-08-863-639A-53

Query Match 0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 55;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 273 CCTCTCTCTCTCTCCACCACT 293
Db 1 CCTCTCTCTCTCTCTCTCTCT 21

RESULT 23
US-08-863-639A-55/c
; Sequence 55, Application US/08863639A
; Patent No. 5981185
; GENERAL INFORMATION:
; APPLICANT: Matson, Robert S.
; APPLICANT: Coassin, Peter J.
; APPLICANT: Rampal, Jang B.
; APPLICANT: Caskey, C. T.
; TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS
; NUMBER OF SEQUENCES: 95
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sheldon & Mak
; STREET: 225 South Lake Avenue, 9th Floor
; CITY: Pasadena
; STATE: CA
; COUNTRY: USA
; ZIP: 91101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: Corel WordPerfect 8 version
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/863,639A
; FILING DATE: May 28, 1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Joseph E. Mueth
; REGISTRATION NUMBER: 20,532
; REFERENCE/DOCKET NUMBER: 11859-1
; TELEPHONE: (626) 796-4000
; TELEFAX: (626) 795-6321
; INFORMATION FOR SEQ ID NO: 55:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid
; US-08-863-639A-55
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; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: Corel WordPerfect 8 version
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/863,639A
; FILING DATE: May 28, 1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Joseph E. Mueth
; REGISTRATION NUMBER: 20,532
; REFERENCE/DOCKET NUMBER: 11859-1
; TELEPHONE: (626) 796-4000
; TELEFAX: (626) 795-6321
; INFORMATION FOR SEQ ID NO: 56:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid
; US-08-863-639A-56

Query Match 0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 55;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGCG 671
Db 1 CGGCAGCAGCGCGCGCGCGCG 21

RESULT 24
US-08-863-639A-56
; Sequence 56, Application US/08863639A
; Patent No. 5981185
; GENERAL INFORMATION:
; APPLICANT: Matson, Robert S.
; APPLICANT: Coassin, Peter J.
; APPLICANT: Rampal, Jang B.
; APPLICANT: Caskey, C. T.
; TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS
; NUMBER OF SEQUENCES: 95
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sheldon & Mak
; STREET: 225 South Lake Avenue, 9th Floor
; CITY: Pasadena
; STATE: CA
; COUNTRY: USA
; ZIP: 91101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: Corel WordPerfect 8 version
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/863,639A
; FILING DATE: May 28, 1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Joseph E. Mueth
; REGISTRATION NUMBER: 20,532
; REFERENCE/DOCKET NUMBER: 11859-1
; TELEPHONE: (626) 796-4000
; TELEFAX: (626) 795-6321
; INFORMATION FOR SEQ ID NO: 56:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid
; US-08-863-639A-56

Query Match 0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 55;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGCG 671
Db 1 CGGCAGCAGCGCGCGCGCGCG 21

RESULT 25
US-08-863-639A-59
; Sequence 59, Application US/08863639A
; Patent No. 5981185
; GENERAL INFORMATION:
; APPLICANT: Matson, Robert S.
; APPLICANT: Coassin, Peter J.
; APPLICANT: Rampal, Jang B.
; APPLICANT: Caskey, C. T.
```



; TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS
; NUMBER OF SEQUENCES: 95
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sheldon & Mak
; STREET: 225 South Lake Avenue, 9th Floor
; CITY: Pasadena
; STATE: CA
; COUNTRY: USA
; ZIP: 91101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: Corel WordPerfect 8 version
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/863,639A
; FILING DATE: May 28, 1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Joseph E. Mueth
; REGISTRATION NUMBER: 20,532
; REFERENCE/DOCKET NUMBER: 11859-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (626) 796-4000
; TELEFAX: (626) 795-6321
; INFORMATION FOR SEQ ID NO: 59:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid
; US-08-863-639A-59

Query Match 0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 55;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 274 CTCCTCCTCCTCCACCACCTC 294
Db 1 CTCCTCCTCCTCCTCCTCCTC 21

RESULT 26
US-08-863-639A-64/c
; Sequence 64, Application US/08863639A
; Patent No. 5981185
; GENERAL INFORMATION:
; APPLICANT: Matson, Robert S.
; APPLICANT: Coassin, Peter J.
; APPLICANT: Rampal, Jang B.
; APPLICANT: Caskey, C. T.
; TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS
; NUMBER OF SEQUENCES: 95
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sheldon & Mak
; STREET: 225 South Lake Avenue, 9th Floor
; CITY: Pasadena
; STATE: CA
; COUNTRY: USA
; ZIP: 91101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: Corel WordPerfect 8 version
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/863,639A
; FILING DATE: May 28, 1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Joseph E. Mueth
; REGISTRATION NUMBER: 20,532
; REFERENCE/DOCKET NUMBER: 11859-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (626) 796-4000
; TELEFAX: (626) 795-6321
; INFORMATION FOR SEQ ID NO: 68:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid
; US-08-863-639A-68

Query Match 0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 55;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 274 CTCCTCCTCCTCCACCACCTC 294
Db 1 CTCCTCCTCCTCCTCCTCCTC 21

RESULT 26
US-08-863-639A-64/c
; Sequence 64, Application US/08863639A
; Patent No. 5981185
; GENERAL INFORMATION:
; APPLICANT: Matson, Robert S.
; APPLICANT: Coassin, Peter J.
; APPLICANT: Rampal, Jang B.
; APPLICANT: Caskey, C. T.
; TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS
; NUMBER OF SEQUENCES: 95
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sheldon & Mak
; STREET: 225 South Lake Avenue, 9th Floor
; CITY: Pasadena
; STATE: CA
; COUNTRY: USA
; ZIP: 91101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: Corel WordPerfect 8 version
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/863,639A
; FILING DATE: May 28, 1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Joseph E. Mueth
; REGISTRATION NUMBER: 20,532
; REFERENCE/DOCKET NUMBER: 11859-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (626) 796-4000
; TELEFAX: (626) 795-6321
; INFORMATION FOR SEQ ID NO: 68:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid
; US-08-863-639A-68

Query Match 0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 55;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 274 CTCCTCCTCCTCCACCACCTC 294
Db 1 CTCCTCCTCCTCCTCCTCCTC 21

; REFERENCE/DOCKET NUMBER: 11859-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (626) 796-4000
; TELEFAX: (626) 795-6321
; INFORMATION FOR SEQ ID NO: 64:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid
; US-08-863-639A-64

Query Match 0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 55;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 274 CTCCTCCTCCTCCACCACCTC 294
Db 21 CTCCTCCTCCTCCTCCTCCTC 1

RESULT 27
US-08-863-639A-68
; Sequence 68, Application US/08863639A
; Patent No. 5981185
; GENERAL INFORMATION:
; APPLICANT: Matson, Robert S.
; APPLICANT: Coassin, Peter J.
; APPLICANT: Rampal, Jang B.
; APPLICANT: Caskey, C. T.
; TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS
; NUMBER OF SEQUENCES: 95
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sheldon & Mak
; STREET: 225 South Lake Avenue, 9th Floor
; CITY: Pasadena
; STATE: CA
; COUNTRY: USA
; ZIP: 91101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: Corel WordPerfect 8 version
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/863,639A
; FILING DATE: May 28, 1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Joseph E. Mueth
; REGISTRATION NUMBER: 20,532
; REFERENCE/DOCKET NUMBER: 11859-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (626) 796-4000
; TELEFAX: (626) 795-6321
; INFORMATION FOR SEQ ID NO: 68:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid
; US-08-863-639A-68

Query Match 0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 55;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 274 CTCCTCCTCCTCCACCACCTC 294
Db 1 CTCCTCCTCCTCCTCCTCCTC 21

RESULT 27
US-08-863-639A-68
; Sequence 68, Application US/08863639A
; Patent No. 5981185
; GENERAL INFORMATION:
; APPLICANT: Matson, Robert S.
; APPLICANT: Coassin, Peter J.
; APPLICANT: Rampal, Jang B.
; APPLICANT: Caskey, C. T.
; TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS
; NUMBER OF SEQUENCES: 95
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sheldon & Mak
; STREET: 225 South Lake Avenue, 9th Floor
; CITY: Pasadena
; STATE: CA
; COUNTRY: USA
; ZIP: 91101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: Corel WordPerfect 8 version
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/863,639A
; FILING DATE: May 28, 1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Joseph E. Mueth
; REGISTRATION NUMBER: 20,532
; REFERENCE/DOCKET NUMBER: 11859-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (626) 796-4000
; TELEFAX: (626) 795-6321
; INFORMATION FOR SEQ ID NO: 68:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid
; US-08-863-639A-68

Query Match 0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 55;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 274 CTCCTCCTCCTCCACCACCTC 294
Db 1 CTCCTCCTCCTCCTCCTCCTC 21

```
RESULT 28
US-08-863-639A-70/c
; Sequence 70, Application US/08863639A
; Patent No. 5981185
; GENERAL INFORMATION:
; APPLICANT: Matson, Robert S.
; APPLICANT: Coassin, Peter J.
; APPLICANT: Rampal, Jang B.
; APPLICANT: Caskey, C. T.
; TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS
; NUMBER OF SEQUENCES: 95
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sheldon & Mak
; STREET: 225 South Lake Avenue, 9th Floor
; CITY: Pasadena
; STATE: CA
; COUNTRY: USA
; ZIP: 91101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; OPERATING SYSTEM: Windows 95
; SOFTWARE: Corel WordPerfect 8 version
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/863,639A
; FILING DATE: May 28, 1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Joseph E. Mueth
; REGISTRATION NUMBER: 20,532
; REFERENCE/DOCKET NUMBER: 11859-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (626) 796-4000
; TELEFAX: (626) 795-6321
; INFORMATION FOR SEQ ID NO: 70:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid
US-08-863-639A-70

Query Match 0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 55;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 275 TCCTCTCTCTCCACCACTCC 295
Db 21 TCCTCTCTCTCTCTCTCTCC 1

RESULT 29
US-08-863-639A-83
; Sequence 83, Application US/08863639A
; Patent No. 5981185
; GENERAL INFORMATION:
; APPLICANT: Matson, Robert S.
; APPLICANT: Coassin, Peter J.
; APPLICANT: Rampal, Jang B.
; APPLICANT: Caskey, C. T.
; TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS
; NUMBER OF SEQUENCES: 95
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sheldon & Mak
; STREET: 225 South Lake Avenue, 9th Floor
; CITY: Pasadena
; STATE: CA
; COUNTRY: USA
; ZIP: 91101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; OPERATING SYSTEM: Windows 95
; SOFTWARE: Corel WordPerfect 8 version
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/863,639A
; FILING DATE: May 28, 1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Joseph E. Mueth
; REGISTRATION NUMBER: 20,532
; REFERENCE/DOCKET NUMBER: 11859-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (626) 796-4000
; TELEFAX: (626) 795-6321
; INFORMATION FOR SEQ ID NO: 70:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid
US-08-863-639A-83

Query Match 0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 55;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 275 TCCTCTCTCTCCACCACTCC 295
Db 21 TCCTCTCTCTCTCTCTCTCC 1

RESULT 30
US-09-245-169-7
; Sequence 7, Application US/09245169
; Patent No. 6417208
; GENERAL INFORMATION:
; APPLICANT: Albert Einstein College of Medicine of Yeshiva University
; TITLE OF INVENTION: A METHOD OF IDENTIFICATION OF INHIBITORS OF PDE1C AND METHODS OF
; FILE REFERENCE: 96700/556
; CURRENT APPLICATION NUMBER: US/09/245,169
; CURRENT FILING DATE: 1999-02-05
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-245-169-7

Query Match 0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 55;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 208 GGGGGTGGGTGGGGGAGG 228
Db 1 GGGGGTGGGTGGGTGGAGAG 21

RESULT 31
US-10-085-849-7
; Sequence 7, Application US/10085849
; Patent No. 6812239
; GENERAL INFORMATION:
; APPLICANT: Albert Einstein College of Medicine of Yeshiva University
; TITLE OF INVENTION: A METHOD OF IDENTIFICATION OF INHIBITORS OF PDE1C AND
; FILE REFERENCE: 96700/556
; CURRENT APPLICATION NUMBER: US/10/085,849
; CURRENT FILING DATE: 2002-02-27
; PRIOR APPLICATION NUMBER: US/09/245,169
```

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; COMPUTER: IBM compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: Corel WordPerfect 8 version
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/863,639A
; FILING DATE: May 28, 1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Joseph E. Mueth
; REGISTRATION NUMBER: 20,532
; REFERENCE/DOCKET NUMBER: 11859-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (626) 796-4000
; TELEFAX: (626) 795-6321
; INFORMATION FOR SEQ ID NO: 83:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid
US-08-863-639A-83

Query Match 0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 55;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 275 TCCTCTCTCTCCACCACTCC 295
Db 1 TCCTCTCTCTCTCTCTCTCC 21

RESULT 30
US-09-245-169-7
; Sequence 7, Application US/09245169
; Patent No. 6417208
; GENERAL INFORMATION:
; APPLICANT: Albert Einstein College of Medicine of Yeshiva University
; TITLE OF INVENTION: A METHOD OF IDENTIFICATION OF INHIBITORS OF PDE1C AND METHODS OF
; FILE REFERENCE: 96700/556
; CURRENT APPLICATION NUMBER: US/09/245,169
; CURRENT FILING DATE: 1999-02-05
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-245-169-7

Query Match 0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 55;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 208 GGGGGTGGGTGGGGGAGG 228
Db 1 GGGGGTGGGTGGGTGGAGAG 21

RESULT 31
US-10-085-849-7
; Sequence 7, Application US/10085849
; Patent No. 6812239
; GENERAL INFORMATION:
; APPLICANT: Albert Einstein College of Medicine of Yeshiva University
; TITLE OF INVENTION: A METHOD OF IDENTIFICATION OF INHIBITORS OF PDE1C AND
; FILE REFERENCE: 96700/556
; CURRENT APPLICATION NUMBER: US/10/085,849
; CURRENT FILING DATE: 2002-02-27
; PRIOR APPLICATION NUMBER: US/09/245,169
```

;; PRIOR FILING DATE: 1999-02-05  
;; NUMBER OF SEQ ID NOS: 7  
;; SOFTWARE: PatentIn version 3.0  
;; SEQ ID NO 7  
;; LENGTH: 21  
;; TYPE: DNA  
;; ORGANISM: Mus musculus  
US-10-085-849-7

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 55;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 208 GGGGGTGGGTGGGGGGGAGG 228  
Db 1 GGGGGTGGGTGGGTGGAGAGG 21

RESULT 32  
US-08-117-952-681  
; Sequence 681, Application US/08117952  
; Patent No. 5851760  
; GENERAL INFORMATION:  
; APPLICANT: Evans, Glen A.  
; APPLICANT: Smith, Michael W.  
; TITLE OF INVENTION: METHOD FOR GENERATION OF SEQUENCE  
; TITLE OF INVENTION: SAMPLED MAPS OF COMPLEX GENOMES  
; NUMBER OF SEQUENCES: 797  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Pretty, Schroeder, Brueggemann & Clark  
; STREET: 444 South Flower Street, Suite 2000  
; CITY: Los Angeles  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 90071

;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Floppy disk  
;; COMPUTER: IBM PC compatible  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: PatentIn Release #1.0, Version #1.25  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/117,952  
;; FILING DATE: 07-SEP-1993  
;; CLASSIFICATION: 435  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: US 08/078,471  
;; FILING DATE: 15-JUN-1993  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Reiter, Stephen E.  
;; REGISTRATION NUMBER: 31,192  
;; REFERENCE/DOCKET NUMBER: P41 9423  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 619-546-4737  
;; TELEFAX: 619-546-9392  
;; INFORMATION FOR SEQ ID NO: 681:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 19 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: Oligonucleotide  
;; HYPOTHETICAL: NO  
;; ANTI-SENSE: NO  
US-08-117-952-681

Query Match 0.6%; Score 17.4; DB 1; Length 19;  
Best Local Similarity 94.7%; Pred. No. 50;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1555 ATCATCTTCCTGGCCCTGG 1573  
Db 1 ATCATCTTCCTGGCCCTGG 19

RESULT 33  
US-09-935-338-164/c  
; Sequence 164, Application US/09935338  
; Patent No. 6951722  
; GENERAL INFORMATION:  
; APPLICANT: MUKAI, Hiroyuki  
; APPLICANT: SAGAWA, Hiroaki  
; APPLICANT: UEMORI, Takashi  
; APPLICANT: YAMAMOTO, Junko  
; APPLICANT: TOMONO, Jun  
; APPLICANT: KOBAYASHI, Ei-ji  
; APPLICANT: ENOKI, Tatsuji  
; APPLICANT: TAKEDA, Osamu  
; APPLICANT: MIYAKE, Kazuo  
; APPLICANT: SATO, Yoshimi  
; APPLICANT: MORIYAMA, Mariko  
; APPLICANT: SAWARAGI, Haruhisa  
; APPLICANT: HAGIYA, Michio  
; APPLICANT: ASADA, Kiyo-ozo  
; APPLICANT: KATO, Ikunoshin  
; TITLE OF INVENTION: A method for amplification of nucleic acids  
; FILE REFERENCE: MUKAI-1  
; CURRENT APPLICATION NUMBER: US/09/935,338  
; CURRENT FILING DATE: 2001-08-23  
; PRIOR APPLICATION NUMBER: JP11-076966  
; PRIOR FILING DATE: 1999-03-19  
; PRIOR APPLICATION NUMBER: JP11-370035  
; PRIOR FILING DATE: 1999-12-27  
; PRIOR APPLICATION NUMBER: JP2000-251981  
; PRIOR FILING DATE: 2000-08-23  
; PRIOR APPLICATION NUMBER: JP2000-284419  
; PRIOR FILING DATE: 2000-09-19  
; PRIOR APPLICATION NUMBER: JP2000-288750  
; PRIOR FILING DATE: 2000-09-22  
; PRIOR APPLICATION NUMBER: JP2001-104191  
; PRIOR FILING DATE: 2001-04-03  
; PRIOR APPLICATION NUMBER: PCT/JP00/01534  
; PRIOR FILING DATE: 2000-03-14  
; NUMBER OF SEQ ID NOS: 290  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 164  
; LENGTH: 19  
; TYPE: DNA  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: Designed chimeric oligonucleotide primer to amplify a portion of  
; OTHER INFORMATION: INOS-encoding sequence from mouse. "nucleotides 17 to 19 are  
; OTHER INFORMATION: ribonucleotides-other nucleotides are deoxyribonucleotides"  
US-09-935-338-164

Query Match 0.6%; Score 17.4; DB 1; Length 19;  
Best Local Similarity 94.7%; Pred. No. 50;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1579 CTCATCTTTGCCACCATGA 1597  
Db 19 CTCATCTTTGCCACCAAGA 1

RESULT 34  
US-09-935-338-166/c  
; Sequence 166, Application US/09935338  
; Patent No. 6951722  
; GENERAL INFORMATION:  
; APPLICANT: MUKAI, Hiroyuki  
; APPLICANT: SAGAWA, Hiroaki  
; APPLICANT: UEMORI, Takashi  
; APPLICANT: YAMAMOTO, Junko  
; APPLICANT: TOMONO, Jun  
; APPLICANT: KOBAYASHI, Ei-ji  
; APPLICANT: ENOKI, Tatsuji  
; APPLICANT: TAKEDA, Osamu

APPLICANT: MIYAKE, Kazue  
APPLICANT: SATO, Yoshiaki  
APPLICANT: MORIYAMA, Mariko  
APPLICANT: SAWARAGI, Haruhisa  
APPLICANT: HAGIYA, Michio  
APPLICANT: ASADA, Kiyozo  
APPLICANT: KATO, Ikunoshin  
TITLE OF INVENTION: A method for amplification of nucleic acids  
FILE REFERENCE: MUKAI=1  
CURRENT APPLICATION NUMBER: US/09/935,338  
CURRENT FILING DATE: 2001-08-23  
PRIOR APPLICATION NUMBER: JP11-076966  
PRIOR FILING DATE: 1999-03-19  
PRIOR APPLICATION NUMBER: JP11-370035  
PRIOR FILING DATE: 1999-12-27  
PRIOR APPLICATION NUMBER: JP2000-251981  
PRIOR FILING DATE: 2000-08-23  
PRIOR APPLICATION NUMBER: JP2000-284419  
PRIOR FILING DATE: 2000-09-19  
PRIOR APPLICATION NUMBER: JP2000-288750  
PRIOR FILING DATE: 2000-09-22  
PRIOR APPLICATION NUMBER: JP2001-104191  
PRIOR FILING DATE: 2001-04-03  
PRIOR APPLICATION NUMBER: PCT/JP00/01534  
PRIOR FILING DATE: 2000-03-14  
NUMBER OF SEQ ID NOS: 290  
SOFTWARE: Patentin version 3.2  
SEQ ID NO 166  
LENGTH: 19  
TYPE: DNA  
ORGANISM: Artificial  
FEATURE:  
OTHER INFORMATION: Designed oligonucleotide primer to amplify a portion of  
OTHER INFORMATION: INOS-encoding sequence from mouse  
US-09-935-338-166

Query Match 0.6%; Score 17.4; DB 1; Length 19;  
Best Local Similarity 94.7%; Pred. No. 50;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1579 CTCATCTTTGCCACCATGA 1597

DB 19 CTCATCTTTGCCACCAAGA 1

RESULT 35  
US-09-661-753-35  
Sequence 35, Application US/09661753  
Patent No. 6436909  
GENERAL INFORMATION:  
APPLICANT: Nicholas M. Dean  
APPLICANT: Susan F. Murray  
TITLE OF INVENTION: ANTISENSE MODULATION OF TRANSFORMING GROWTH FACTOR BETA  
FILE REFERENCE: ISPH-0498  
CURRENT APPLICATION NUMBER: US/09/661,753  
CURRENT FILING DATE: 2000-09-14  
EARLIER APPLICATION NUMBER: 60/154,546  
EARLIER FILING DATE: 1999-09-17  
NUMBER OF SEQ ID NOS: 68  
SEQ ID NO 35  
LENGTH: 20  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Antisense Oligonucleotide  
US-09-661-753-35

Query Match 0.6%; Score 17; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 63;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGC 660

|||||

DB 4 GCAGCAGCGGCAGCAGC 20  
RESULT 36  
US-09-030-701-65  
Sequence 65, Application US/09030701B  
Patent No. 6214806  
GENERAL INFORMATION:  
APPLICANT: Krieg, Arthur M.  
APPLICANT: Schwartz, David A.  
TITLE OF INVENTION: USE OF NUCLEIC ACIDS CONTAINING  
TITLE OF INVENTION: UNMETHYLATED CPG DINUCLEOTIDE IN THE TREATMENT OF  
FILE REFERENCE: C1039/7011  
CURRENT APPLICATION NUMBER: US/09/030,701B  
CURRENT FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/039,405  
PRIOR FILING DATE: 1997-02-28  
NUMBER OF SEQ ID NOS: 65  
SOFTWARE: FastSEQ for Windows Version 3.0  
SEQ ID NO 65  
LENGTH: 20  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: synthetic oligonucleotide  
US-09-030-701-65

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 67;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GCAGCAGCGCGCGCGGG 671

DB 1 GCGCGCGCGCGCGCGGG 20

RESULT 37  
US-09-082-649B-55/c  
Sequence 55, Application US/09082649B  
Patent No. 6339068  
GENERAL INFORMATION:  
APPLICANT: Davis, Heather L.  
APPLICANT: Krieg, Arthur M.  
APPLICANT: Schorr, Joachim  
APPLICANT: Wu, Tong  
TITLE OF INVENTION: Vectors and Methods for Immunization or  
TITLE OF INVENTION: Therapeutic Protocols  
FILE REFERENCE: C1039/7009  
CURRENT APPLICATION NUMBER: US/09/082,649B  
CURRENT FILING DATE: 1998-05-20  
PRIOR APPLICATION NUMBER: US 60/047,233  
PRIOR FILING DATE: 1997-05-20  
PRIOR APPLICATION NUMBER: US 60/047,209  
PRIOR FILING DATE: 1997-05-20  
NUMBER OF SEQ ID NOS: 85  
SOFTWARE: FastSEQ for Windows Version 3.0  
SEQ ID NO 55  
LENGTH: 20  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: synthetic oligonucleotide  
US-09-082-649B-55

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 67;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GCGGGGTGGGTGGGGGGG 225

DB 20 GCGGGGTGGGTGGGGGGG 1

```
RESULT 38
US-09-082-649B-57
; Sequence 57, Application US/09082649B
; Patent No. 6339068
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; TITLE OF INVENTION: Therapeutic Protocols
; FILE REFERENCE: C1039/7009
; CURRENT APPLICATION NUMBER: US/09/082,649B
; CURRENT FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 57
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-082-649B-57

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 67;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 652 GGCAGCAGCGCGCGCGCGG 671
Db 1 GCGCGCGCGCGCGCGCGCG 20

RESULT 39
US-09-197-951-2/c
; Sequence 2, Application US/09197951
; Patent No. 6197554
; GENERAL INFORMATION:
; APPLICANT: LIN, SHI-LUNG
; APPLICANT: CHUONG, CHENG-MING
; APPLICANT: YING, SHAO-YAO
; TITLE OF INVENTION: Method for Generating Full-Length cDNA
; TITLE OF INVENTION: Library from Single Cells
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: David & Raymond Patent Firm
; STREET: 108 N. Ynez Ave., Suite 128
; CITY: Monterey Park
; STATE: CA
; COUNTRY: USA
; ZIP: 91754
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/197,951
; FILING DATE: 20-NO. 6197554-1998
; CLASSIFICATION: <unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Chan, Raymond Y.C.
; REGISTRATION NUMBER: 37,484
; REFERENCE/DOCKET NUMBER: USP8462A-SL(3)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (626) 571-9812
; TELEFAX: (626) 571-9813
; INFORMATION FOR SEQ ID NO: 2:
```

```
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "synthetic"
HYPOTHETICAL: NO
ANTI-SENSE: NO
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-197-951-2

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 67;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 206 GCGGGGGTGGGTGGGGGGG 225
Db 20 GCGGGGGGGGGGGGGGGGG 1

RESULT 40
US-09-672-126B-134
; Sequence 134, Application US/09672126B
; Patent No. 6949520
; GENERAL INFORMATION:
; APPLICANT: Hartmann, Gunther
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Krieg, Arthur
; TITLE OF INVENTION: Methods Related to Immunostimulatory
; TITLE OF INVENTION: Nucleic Acid-Induced Interferon
; FILE REFERENCE: C1039/7044
; CURRENT APPLICATION NUMBER: US/09/672,126B
; CURRENT FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/156,147
; PRIOR FILING DATE: 1999-09-29
; NUMBER OF SEQ ID NOS: 169
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 134
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-672-126B-134

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 67;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 206 GCGGGGGTGGGTGGGGGGG 225
Db 1 GCGGGGGGGGGGGGGGGGG 20

RESULT 41
US-09-965-101-55/c
; Sequence 55, Application US/09965101
; Patent No. 6821957
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; TITLE OF INVENTION: Therapeutic Protocols
; FILE REFERENCE: C1039/7057 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/965,101
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: US 09/082,649
; PRIOR FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
```

```
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 84
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 55
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-965-101-55

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 67;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGGTGGGGGGG 225
Db 20 GGGGGGGGGGGGGGGGGGG 1

RESULT 42
US-09-965-101-57
; Sequence 57, Application US/09965101
; Patent No. 6821957
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; FILE REFERENCE: C1039/7057 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/965,101
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: US 09/082,649
; PRIOR FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 84
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 57
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-965-101-57

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 67;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GCACGACGCGCGCGCGCG 671
Db 1 GCGGCGCGCGCGCGCGCG 20

RESULT 43
US-07-873-915A-3
; Sequence 3, Application US/07873915A
; Patent No. 5348868
; GENERAL INFORMATION:
; APPLICANT: Reddy, Parameswara M.
; APPLICANT: Hanna, Naeem B.
; TITLE OF INVENTION: Methods and Reagents
; TITLE OF INVENTION: for Cleaving and
; TITLE OF INVENTION: Deprotecting
; TITLE OF INVENTION: Oligonucleotides
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:

; ADDRESSER: Beckman Instruments, Inc.
; STREET: 2500 Harbor Boulevard
; CITY: Fullerton
; STATE: California
; COUNTRY: USA
; ZIP: 92634
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch,
; MEDIUM TYPE: 1.44 Mb
; COMPUTER: IBM
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/873,915A
; FILING DATE: 19920424
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Burgoon, Richard P.
; REGISTRATION NUMBER: 34,787
; REFERENCE/DOCKET NUMBER: 128D-111
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (714) 773-7610
; TELEFAX: (714) 773-7936
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 bases
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: no
; ANTI-SENSE: no
US-07-873-915A-3

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 74;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGGTGGGGGGG 225
Db 1 GGGGGGGGGGGGGGGGGGG 20

RESULT 44
US-08-117-952-682/c
; Sequence 682, Application US/08117952
; Patent No. 5851760
; GENERAL INFORMATION:
; APPLICANT: Evans, Glen A.
; APPLICANT: Smith, Michael W.
; TITLE OF INVENTION: METHOD FOR GENERATION OF SEQUENCE
; TITLE OF INVENTION: SAMPLED MAPS OF COMPLEX GENOMES
; NUMBER OF SEQUENCES: 797
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Pretty, Schroeder, Brueggemann & Clark
; STREET: 444 South Flower Street, Suite 2000
; CITY: Los Angeles
; STATE: CA
; COUNTRY: USA
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/117,952
; FILING DATE: 07-SEP-1993
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/078,471
; FILING DATE: 15-JUN-1993
; ATTORNEY/AGENT INFORMATION:
```

NAME: Reiter, Stephen E.  
REGISTRATION NUMBER: 31,192  
REFERENCE/DOCKET NUMBER: P41 9423  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 619-546-4737  
TELEFAX: 619-546-9192  
INFORMATION FOR SEQ ID NO: 682:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 21 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: Oligonucleotide  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
US-08-117-952-682

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 74;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1711 CTTGGCTATGGGACATGTA 1730  
|||  
Db 20 CTGGGCTATGGAGACATGTA 1

RESULT 45  
US-08-257-964-3  
; Sequence 3, Application US/08257964  
; Patent No. 5518651  
; GENERAL INFORMATION:  
; APPLICANT: Reddy, Parameswara M.  
; APPLICANT: Hanna, Naeem B.  
; TITLE OF INVENTION: Methods and Reagents  
; TITLE OF INVENTION: for Cleaving and  
; TITLE OF INVENTION: Deprotecting  
; TITLE OF INVENTION: Oligonucleotides  
; NUMBER OF SEQUENCES: 12  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Beckman Instruments, Inc.  
; STREET: 2500 Harbor Boulevard  
; CITY: Fullerton  
; STATE: California  
; COUNTRY: USA  
; ZIP: 92634  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3.5 inch,  
; MEDIUM TYPE: 1.44 Mb  
; COMPUTER: IBM  
; OPERATING SYSTEM: MS-DOS  
; SOFTWARE: WordPerfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/257,964  
; FILING DATE: June 8, 1994  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Henry, Janis C.  
; REGISTRATION NUMBER: 34,347  
; REFERENCE/DOCKET NUMBER: 128D-1175A  
; TELEPHONE: (714) 773-6971  
; TELEFAX: (714) 773-7936  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 21 bases  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
; HYPOTHETICAL: no  
; ANTI-SENSE: no  
US-08-257-964-3

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 74;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 206 GGGGGGGTGGGTGGGGGGG 225  
|||  
Db 1 GGGGGGGGGGGGGGGGGGGG 20  
RESULT 46  
US-08-267-803B-66/c  
; Sequence 66, Application US/08267803B  
; Patent No. 5834183  
; GENERAL INFORMATION:  
; APPLICANT: Ori, Harry T.  
; APPLICANT: Rannum, Laura P.W.  
; APPLICANT: Chung, Ming-yi  
; APPLICANT: Zoghbi, Huda Y.  
; TITLE OF INVENTION: Gene Sequence for Spinocerebellar Ataxia  
; Patent No. 5834183  
; TITLE OF INVENTION: Type 1 and Method for Diagnosis  
; NUMBER OF SEQUENCES: 85  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Mueeting, Raasch, Gebhardt & Schwappach, P.A.  
; STREET: P.O. Box 581415  
; CITY: Minneapolis  
; STATE: MN  
; COUNTRY: USA  
; ZIP: 55458-1415  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/267,803B  
; FILING DATE: 28-JUN-1994  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: McCormack, Myra H.  
; REGISTRATION NUMBER: 36,602  
; REFERENCE/DOCKET NUMBER: 110.00030120  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 612-305-1217  
; TELEFAX: 612-305-1228  
; INFORMATION FOR SEQ ID NO: 66:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 21 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA  
US-08-267-803B-66

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 74;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCGAGCAGCGG 663  
|||  
Db 20 GCAGCAGCGAGCAGCAGCAGC 1

RESULT 47  
US-08-416-214A-11  
; Sequence 11, Application US/08416214A  
; Patent No. 5998596  
; GENERAL INFORMATION:  
; APPLICANT: Bergan, Raymond; Neckers, Len  
; TITLE OF INVENTION: Inhibition Of Protein  
; TITLE OF INVENTION: Kinase Activity By Aptameric Action Of  
; TITLE OF INVENTION: Oligonucleotides  
; NUMBER OF SEQUENCES: 12

```

CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/416,214A
FILING DATE: 04-APR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Brown, Kathryn M.
REGISTRATION NUMBER: 34,556
REFERENCE/DOCKET NUMBER: 2026-4166
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 21 base pairs
TYPE: Nucleic acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: Other nucleic acid
HYPOTHETICAL: Yes
ANTI-SENSE: No
US-08-416-214A-11

Query Match 0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 74;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGCGCGG 671
DB 1 GCGCGCGCGCGCGCGCGG 20

RESULT 48
US-08-639A-11/c
Sequence 11, Application US/08863639A
Patent No. 5981185
GENERAL INFORMATION:
APPLICANT: Matson, Robert S.
APPLICANT: Coassin, Peter J.
APPLICANT: Rampal, Jang B.
APPLICANT: Caskey, C. T.
TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS
NUMBER OF SEQUENCES: 95
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sheldon & Mak
STREET: 225 South Lake Avenue, 9th Floor
CITY: Pasadena
STATE: CA
COUNTRY: USA
ZIP: 91101
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
COMPUTER: IBM compatible
OPERATING SYSTEM: Windows 95
SOFTWARE: Corel WordPerfect 8 version
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/863,639A
FILING DATE: May 28, 1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Joseph E. Mueth
REGISTRATION NUMBER: 20,532
REFERENCE/DOCKET NUMBER: 11859-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (626) 796-4000
TELEFAX: (626) 795-6321
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 21 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Other nucleic acid
US-08-863-639A-12

Query Match 0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 74;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GCGGGGGTGGGTGGGGGGG 225
DB 1 GCGGGGGGGGGGGGGGGGG 20

RESULT 49
US-08-863-639A-12
Sequence 12, Application US/08863639A
Patent No. 5981185
GENERAL INFORMATION:
APPLICANT: Matson, Robert S.
APPLICANT: Coassin, Peter J.
APPLICANT: Rampal, Jang B.
APPLICANT: Caskey, C. T.
TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS
NUMBER OF SEQUENCES: 95
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sheldon & Mak
STREET: 225 South Lake Avenue, 9th Floor
CITY: Pasadena
STATE: CA
COUNTRY: USA
ZIP: 91101
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
COMPUTER: IBM compatible
OPERATING SYSTEM: Windows 95
SOFTWARE: Corel WordPerfect 8 version
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/863,639A
FILING DATE: May 28, 1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Joseph E. Mueth
REGISTRATION NUMBER: 20,532
REFERENCE/DOCKET NUMBER: 11859-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (626) 796-4000
TELEFAX: (626) 795-6321
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 21 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Other nucleic acid
US-08-863-639A-12

Query Match 0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 74;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GCGGGGGTGGGTGGGGGGG 225
DB 1 GCGGGGGGGGGGGGGGGGG 20
```



RESULT 50  
US-08-863-639A-40  
; Sequence 40, Application US/08863639A  
; Patent No. 5981185  
; GENERAL INFORMATION:  
; APPLICANT: Matson, Robert S.  
; APPLICANT: Coassin, Peter J.  
; APPLICANT: Rampal, Jang B.  
; APPLICANT: Caskey, C. T.  
; TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS  
; NUMBER OF SEQUENCES: 95  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Sheldon & Mak  
; STREET: 225 South Lake Avenue, 9th Floor  
; CITY: Pasadena  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 91101  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage  
; COMPUTER: IBM compatible  
; OPERATING SYSTEM: Windows 95  
; SOFTWARE: Corel WordPerfect 8 version  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/863,639A  
; FILING DATE: May 28, 1997  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Joseph E. Mueth  
; REGISTRATION/DOCKET NUMBER: 11859-1  
; REFERENCE/DOCKET NUMBER: 11859-1  
; TELEPHONE: (626) 796-4000  
; TELEFAX: (626) 795-6321  
; INFORMATION FOR SEQ ID NO: 40:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 21 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: Other nucleic acid  
US-08-863-639A-40  
Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 74;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGCGGC 663  
|||||  
Db 2 GCAGCAGCAGCAGCAGCAGC 21  
|||||

RESULT 51  
US-08-863-639A-66  
; Sequence 66, Application US/08863639A  
; Patent No. 5981185  
; GENERAL INFORMATION:  
; APPLICANT: Matson, Robert S.  
; APPLICANT: Coassin, Peter J.  
; APPLICANT: Rampal, Jang B.  
; APPLICANT: Caskey, C. T.  
; TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS  
; NUMBER OF SEQUENCES: 95  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Sheldon & Mak  
; STREET: 225 South Lake Avenue, 9th Floor  
; CITY: Pasadena  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 91101  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage  
; COMPUTER: IBM compatible  
; OPERATING SYSTEM: Windows 95  
; SOFTWARE: Corel WordPerfect 8 version  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/863,639A  
; FILING DATE: May 28, 1997  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Joseph E. Mueth  
; REGISTRATION/DOCKET NUMBER: 11859-1  
; REFERENCE/DOCKET NUMBER: 11859-1  
; TELEPHONE: (626) 796-4000  
; TELEFAX: (626) 795-6321  
; INFORMATION FOR SEQ ID NO: 40:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 21 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: Other nucleic acid  
US-08-863-639A-66  
Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 74;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGCGGC 663  
|||||  
Db 2 GCAGCAGCAGCAGCAGCAGC 21  
|||||

COMPUTER: IBM compatible  
OPERATING SYSTEM: Windows 95  
SOFTWARE: Corel WordPerfect 8 version  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/863,639A  
FILING DATE: May 28, 1997  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Joseph E. Mueth  
REGISTRATION/DOCKET NUMBER: 11859-1  
REFERENCE/DOCKET NUMBER: 11859-1  
TELEPHONE: (626) 796-4000  
TELEFAX: (626) 795-6321  
INFORMATION FOR SEQ ID NO: 66:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 21 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: Other nucleic acid  
US-08-863-639A-66  
Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 74;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGCGGC 663  
|||||  
Db 1 GCAGCAGCAGCAGCAGCAGC 20  
|||||

RESULT 52  
US-08-863-639A-67/c  
; Sequence 67, Application US/08863639A  
; Patent No. 5981185  
; GENERAL INFORMATION:  
; APPLICANT: Matson, Robert S.  
; APPLICANT: Coassin, Peter J.  
; APPLICANT: Rampal, Jang B.  
; APPLICANT: Caskey, C. T.  
; TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS  
; NUMBER OF SEQUENCES: 95  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Sheldon & Mak  
; STREET: 225 South Lake Avenue, 9th Floor  
; CITY: Pasadena  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 91101  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage  
; COMPUTER: IBM compatible  
; OPERATING SYSTEM: Windows 95  
; SOFTWARE: Corel WordPerfect 8 version  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/863,639A  
; FILING DATE: May 28, 1997  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Joseph E. Mueth  
; REGISTRATION/DOCKET NUMBER: 20,532  
; REFERENCE/DOCKET NUMBER: 11859-1  
; TELEPHONE: (626) 796-4000  
; TELEFAX: (626) 795-6321  
; INFORMATION FOR SEQ ID NO: 67:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 21 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: Other nucleic acid

```
US-08-863-639A-67
;
; Query Match 0.6%; Score 16.8; DB 1; Length 21;
; Best Local Similarity 90.0%; Pred. No. 74;
; Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 652 GGCAGCAGCGCGCGCGCGG 671
Db 21 GCGCGCGCGCGCGCGCGG 2

RESULT 53
US-08-863-639A-69/c
; Sequence 69, Application US/08863639A
; Patent No. 5981185
; GENERAL INFORMATION:
; APPLICANT: Matson, Robert S.
; APPLICANT: Coassin, Peter J.
; APPLICANT: Rampal, Jang B.
; APPLICANT: Caskey, C. T.
; TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS
; NUMBER OF SEQUENCES: 95
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sheldon & Mak
; STREET: 225 South Lake Avenue, 9th Floor
; CITY: Pasadena
; STATE: CA
; COUNTRY: USA
; ZIP: 91101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: Corel WordPerfect 8 version
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/863,639A
; FILING DATE: May 28, 1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Joseph E. Mueth
; REGISTRATION NUMBER: 20,532
; REFERENCE/DOCKET NUMBER: 11859-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (626) 796-4000
; TELEFAX: (626) 795-6321
; INFORMATION FOR SEQ ID NO: 71:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid
US-08-863-639A-71
;
; Query Match 0.6%; Score 16.8; DB 1; Length 21;
; Best Local Similarity 90.0%; Pred. No. 74;
; Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 652 GGCAGCAGCGCGCGCGCGG 671
Db 1 GCGCGCGCGCGCGCGCGG 20

RESULT 55
US-08-863-639A-87/c
; Sequence 87, Application US/08863639A
; Patent No. 5981185
; GENERAL INFORMATION:
; APPLICANT: Matson, Robert S.
; APPLICANT: Coassin, Peter J.
; APPLICANT: Rampal, Jang B.
; APPLICANT: Caskey, C. T.
; TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS
; NUMBER OF SEQUENCES: 95
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sheldon & Mak
; STREET: 225 South Lake Avenue, 9th Floor
; CITY: Pasadena
; STATE: CA
; COUNTRY: USA
; ZIP: 91101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: Corel WordPerfect 8 version
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/863,639A
; FILING DATE: May 28, 1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Joseph E. Mueth
; REGISTRATION NUMBER: 20,532
; REFERENCE/DOCKET NUMBER: 11859-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (626) 796-4000
; TELEFAX: (626) 795-6321
; INFORMATION FOR SEQ ID NO: 69:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other nucleic acid
US-08-863-639A-69
;
; Query Match 0.6%; Score 16.8; DB 1; Length 21;
; Best Local Similarity 90.0%; Pred. No. 74;
; Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 644 GCAGCAGCGCGCAGCAGCGG 663
Db 20 GCAGCAGCAGCAGCAGCAGC 1

RESULT 54
US-08-863-639A-71
; Sequence 71, Application US/08863639A
; Patent No. 5981185
; GENERAL INFORMATION:
; APPLICANT: Matson, Robert S.
; APPLICANT: Coassin, Peter J.
; APPLICANT: Rampal, Jang B.
; APPLICANT: Caskey, C. T.
; TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS
```

TELECOMMUNICATION INFORMATION:  
TELEPHONE: (626) 796-4000  
TELEFAX: (626) 795-6321  
INFORMATION FOR SEQ ID NO: 87:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 21 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: Other nucleic acid  
US-08-863-639A-87

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 74;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGCGGC 663  
DB 21 GCAGCAGCAGCAGCAGCAGC 2

RESULT 56  
US-09-360-237-8  
Sequence 8, Application US/09360237  
Patent No. 6322962  
GENERAL INFORMATION:  
APPLICANT: BROWN, MICHAEL S.  
APPLICANT: CHENG, DONG  
APPLICANT: ESPENSHADE, PETER J.  
APPLICANT: GOLDSTEIN, JOSEPH L.  
APPLICANT: RAWSON, ROBERT B.  
APPLICANT: SAKAI, JURO  
TITLE OF INVENTION: STEROL-REGULATED SITE-1 PROTEASE AND ASSAYS OF  
TITLE OF INVENTION: MODULATORS THEREOF  
FILE REFERENCE: UTXD:567  
CURRENT APPLICATION NUMBER: US/09/360,237  
CURRENT FILING DATE: 1999-07-23  
EARLIER APPLICATION NUMBER: 60/096,571  
EARLIER FILING DATE: 1998-08-14  
NUMBER OF SEQ ID NOS: 60  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 8  
LENGTH: 21  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC  
US-09-360-237-8

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 74;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2149 AACAGAGGCGAGCTGCTG 2168  
DB 1 ACCAAGAGGCGAGCTTCTG 20

RESULT 57  
US-09-733-444-13/c  
Sequence 13, Application US/09733444  
Patent No. 6576423  
GENERAL INFORMATION:  
APPLICANT: Batra, Surinder K.  
APPLICANT: Brandt, Randall E.  
APPLICANT: Ringel, J'verg  
APPLICANT: Faulmann, Grit  
APPLICANT: L'hr, Matthias  
APPLICANT: Varshney, Grish C.  
APPLICANT: University of Nebraska Board of Regents  
TITLE OF INVENTION: Specific Mucin Expression as a Marker  
TITLE OF INVENTION: for Pancreatic Cancer

FILE REFERENCE: UNMC 63155  
CURRENT APPLICATION NUMBER: US/09/733,444  
CURRENT FILING DATE: 2000-12-08  
NUMBER OF SEQ ID NOS: 29  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 13  
LENGTH: 21  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Primer  
US-09-733-444-13

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 74;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 824 AACCTGCTGCTGGATGACC 843  
DB 21 AGCCCTGCTGCTGGATGATC 2

RESULT 58  
US-09-679-298A-25/c  
Sequence 25, Application US/09679298A  
Patent No. 6566131  
GENERAL INFORMATION:  
APPLICANT: Brett P. Monia  
APPLICANT: Lex M. Combert  
TITLE OF INVENTION: ANTISENSE MODULATION OF SMAD6 EXPRESSION  
FILE REFERENCE: RTS-0045  
CURRENT APPLICATION NUMBER: US/09/679,298A  
CURRENT FILING DATE: 2001-03-05  
NUMBER OF SEQ ID NOS: 47  
SEQ ID NO 25  
LENGTH: 18  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Antisense Oligonucleotide  
US-09-679-298A-25

Query Match 0.6%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 94.4%; Pred. No. 60;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 657 CAGCGCGCGCGCGCGGG 674  
DB 18 CAGCGCGCGCGCGGTGG 1

RESULT 59  
US-09-420-692A-51/c  
Sequence 51, Application US/09420692A  
Patent No. 6953783  
GENERAL INFORMATION:  
APPLICANT: Besterman, Jeffrey  
APPLICANT: MacLeod, Robert  
APPLICANT: Siders, William  
TITLE OF INVENTION: Modulation of Gene Expression by Combination Therapy  
FILE REFERENCE: 106101.197  
CURRENT APPLICATION NUMBER: US/09/420,692A  
CURRENT FILING DATE: 1999-10-19  
PRIOR APPLICATION NUMBER: US 60/104,804  
PRIOR FILING DATE: 1998-10-19  
NUMBER OF SEQ ID NOS: 90  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 51  
LENGTH: 20  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: oligonucleotide

US-09-420-692A-51

Query Match 0.6%; Score 16.4; DB 1; Length 20;  
Best Local Similarity 94.4%; Pred. No. 75;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 643 GGCAGCAGCGGCAGCAGC 660  
|||||  
Db 19 GGCAGCAGCAGCAGCAGC 2

RESULT 60

US-09-593-711A-152/c

; Sequence 152, Application US/09593711A

; Patent No. 6271030

; GENERAL INFORMATION:

; APPLICANT: Brett P. Monia

; APPLICANT: Madeline M. Butler

; APPLICANT: Jacqueline Wyatt

; TITLE OF INVENTION: ANTISENSE MODULATION OF C/EBP BETA EXPRESSION

; FILE REFERENCE: RTS-0118

; CURRENT APPLICATION NUMBER: US/09/593,711A

; CURRENT FILING DATE: 2000-06-14

; NUMBER OF SEQ ID NOS: 244

; SEQ ID NO 152

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Antisense Oligonucleotide

US-09-593-711A-152

Query Match 0.6%; Score 16.4; DB 1; Length 20;  
Best Local Similarity 94.4%; Pred. No. 75;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 649 AGCGCAGCAGCGCGGC 666  
|||||  
Db 18 AGCGCAGCAGCGCGGC 1

RESULT 61

US-09-755-004-10

; Sequence 10, Application US/09755004

; Patent No. 6911308

; GENERAL INFORMATION:

; APPLICANT: Shuber, Anthony

; TITLE OF INVENTION: Methods for Detecting, Grading or Monitoring an H. pylori Infection

; FILE REFERENCE: EXT-048

; CURRENT APPLICATION NUMBER: US/09/755,004

; CURRENT FILING DATE: 2001-01-05

; NUMBER OF SEQ ID NOS: 11

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 10

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial sequence

; FEATURE:

; OTHER INFORMATION: APC forward primer

US-09-755-004-10

Query Match 0.6%; Score 16.4; DB 1; Length 20;  
Best Local Similarity 94.4%; Pred. No. 75;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 280 CTCCTCCACCACTCTCTC 297  
|||||  
Db 1 CACCTCCACCACTCTCTC 18

RESULT 62

US-09-780-173A-93/c

; Sequence 93, Application US/09780173A

; Patent No. 6455307

; GENERAL INFORMATION:

; APPLICANT: Robert McKay

; APPLICANT: Susan M. Freier

; APPLICANT: Jacqueline Wyatt

; TITLE OF INVENTION: ANTISENSE MODULATION OF CASEIN KINASE 2-ALPHA PRIME EXPRESSION

; FILE REFERENCE: RTS-0165

; CURRENT APPLICATION NUMBER: US/09/780,173A

; CURRENT FILING DATE: 2001-02-08

; NUMBER OF SEQ ID NOS: 95

; SEQ ID NO 93

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Antisense Oligonucleotide

US-09-780-173A-93

Query Match 0.6%; Score 16.4; DB 1; Length 20;  
Best Local Similarity 94.4%; Pred. No. 75;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 273 CCTCCTCCTCCTCCACCA 290  
|||||  
Db 19 CCTCCTCCTCCTCCTCCA 2

RESULT 63

US-09-850-514-44/c

; Sequence 44, Application US/09850514

; Patent No. 6841349

; GENERAL INFORMATION:

; APPLICANT: Rao, Sulekha

; APPLICANT: Bloch, Will

; TITLE OF INVENTION: Methods For The Reduction Of Stutter In Microsatellite Amplification

; FILE REFERENCE: Abi-0007

; CURRENT APPLICATION NUMBER: US/09/850,514

; CURRENT FILING DATE: 2001-05-07

; NUMBER OF SEQ ID NOS: 48

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 44

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Primer

US-09-850-514-44

Query Match 0.6%; Score 16.4; DB 1; Length 20;  
Best Local Similarity 94.4%; Pred. No. 75;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2365 AGACAGACAGACAGAAAG 2382  
|||||  
Db 19 AGACAGACAGACAGATAG 2

RESULT 64

US-09-850-514-45/c

; Sequence 45, Application US/09850514

; Patent No. 6841349

; GENERAL INFORMATION:

; APPLICANT: Rao, Sulekha

; APPLICANT: Bloch, Will

; TITLE OF INVENTION: Methods For The Reduction Of Stutter In Microsatellite Amplification

; FILE REFERENCE: Abi-0007

; CURRENT APPLICATION NUMBER: US/09/850,514

; CURRENT FILING DATE: 2001-05-07

; NUMBER OF SEQ ID NOS: 48

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 45

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Primer  
US-09-850-514-45

Query Match 0.6%; Score 16.4; DB 1; Length 20;  
Best Local Similarity 94.4%; Pred. No. 75;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2365 AGACAGACAGACAGAAAG 2382  
|||||  
DB 19 AGACAGACAGACAGATAG 2

RESULT 65  
US-08-325-955-2/c  
; Sequence 2, Application US/08325955  
; Patent No. 6610299  
; GENERAL INFORMATION:  
; APPLICANT: Seeman, Gerhard  
; APPLICANT: Bosslet, Klaus  
; APPLICANT: Czech, Joerg  
; APPLICANT: Kolar, Cenek  
; APPLICANT: Hoffman, Dieter  
; APPLICANT: Sedlacek, Hans-Harald  
; TITLE OF INVENTION: Glycosyl-Stoposide Prodrugs, A Process For  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &  
; ADDRESSER: Dunner  
; STREET: 1300 I Street, N.W., Suite 700  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20005  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/325,955  
; FILING DATE: 19-OCT-1994  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Ogden, Stasia L.  
; REGISTRATION NUMBER: 36,228  
; REFERENCE/DOCKET NUMBER: 05552.0981-04000  
; TELEPHONE: 202-408-4000  
; TELEFAX: 202-408-4400  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 17 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
US-08-325-955-2

Query Match 0.6%; Score 16; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 60;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGG 671  
|||||  
DB 16 GCAGCGCGCGCGCGG 1

RESULT 66  
US-09-343-698-2/c  
; Sequence 2, Application US/09343698  
; Patent No. 6475486

; GENERAL INFORMATION:  
; APPLICANT: Seeman, Gerhard  
; APPLICANT: Bosslet, Klaus  
; APPLICANT: Czech, Joerg  
; APPLICANT: Kolar, Cenek  
; APPLICANT: Hoffman, Dieter  
; APPLICANT: Sedlacek, Hans-Harald  
; TITLE OF INVENTION: Glycosyl-Stoposide Prodrugs, A Process For  
; Preparation Thereof And The Use Thereof In Combination With  
; Functionalized Tumor-Specific Enzyme Conjugates  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &  
; ADDRESSER: Dunner  
; STREET: 1300 I Street, N.W., Suite 700  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20005  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/343,698  
; FILING DATE: 30-Jun-1999  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/325,955  
; FILING DATE: <Unknown>  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Ogden, Stasia L.  
; REGISTRATION NUMBER: 36,228  
; REFERENCE/DOCKET NUMBER: 05552.0981-04000  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202-408-4000  
; TELEFAX: 202-408-4400  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 17 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
US-09-343-698-2

Query Match 0.6%; Score 16; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 60;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGG 671  
|||||  
DB 16 GCAGCGCGCGCGCGG 1

RESULT 67  
US-08-410-540-5  
; Sequence 5, Application US/08410540  
; Patent No. 5807678  
; GENERAL INFORMATION:  
; APPLICANT: Miller, Walter L.  
; APPLICANT: Lin, Dong  
; APPLICANT: Strauss III, Jerome F.  
; TITLE OF INVENTION: IDENTIFICATION OF GENE MUTATIONS  
; TITLE OF INVENTION: ASSOCIATED WITH CONGENITAL LIPOID ADRENAL HYPERPLASIA  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Cooley Godward Castro Huddleson & Tatum  
; STREET: 5 Palo Alto Square  
; CITY: Palo Alto  
; STATE: CA

;  
; COUNTRY: US  
; ZIP: 94306-2155  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/410,540  
; FILING DATE: 23-MAR-1995  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Neeley, Richard L.  
; REGISTRATION NUMBER: 30,092  
; REFERENCE/DOCKET NUMBER: UCAL-238/00US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415 853 5070  
; TELEFAX: 415 857 0663  
; TELEX: 380816COOLEYPA  
; INFORMATION FOR SEQ ID NO: 5:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 19 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (synthetic)  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO  
; US-08-410-540-5

Query Match 0.6%; Score 16; DB 1; Length 19;  
Best Local Similarity 100.0%; Pred. No. 76;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAG 659  
Db 4 GCAGCAGCGGCAGCAG 19  
|||||

RESULT 68  
US-09-060-299-247  
; Sequence 247, Application US/09060299  
; Patent No. 6545137  
; GENERAL INFORMATION:  
; APPLICANT: Todd, John A  
; APPLICANT: Hess, John W  
; APPLICANT: Caskey, Charles T  
; APPLICANT: Cox, Roger D  
; APPLICANT: Gerhold, David  
; APPLICANT: Hammond, Holly  
; APPLICANT: Hey, Patricia  
; APPLICANT: Kawaguchi, Yoshihiko  
; APPLICANT: Merriman, Tony R  
; APPLICANT: Metzker, Michael L  
; TITLE OF INVENTION: No. 6545137el Receptor  
; NUMBER OF SEQUENCES: 455  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon and Vanderhye  
; STREET: 1100 No. 6545137th Glebe Road, Eighth Floor  
; CITY: Arlington  
; STATE: Virginia  
; COUNTRY: US  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/060,299  
; FILING DATE: 15-APR-1998  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/043,553

;  
; FILING DATE: 15-APR-1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/048,740  
; FILING DATE: 05-JUN-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: B.J.Sadoff  
; REGISTRATION NUMBER: 36,663  
; REFERENCE/DOCKET NUMBER: 620-35  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (703)816-4091  
; TELEFAX: (703)816-4100  
; INFORMATION FOR SEQ ID NO: 247:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 19 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; US-09-060-299-247

Query Match 0.6%; Score 16; DB 1; Length 19;  
Best Local Similarity 100.0%; Pred. No. 76;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1581 CATCTTTGCCACCATG 1596  
Db 4 CATCTTTGCCACCATG 19  
|||||

RESULT 69  
US-09-402-923A-247  
; Sequence 247, Application US/09402923A  
; Patent No. 6555654  
; GENERAL INFORMATION:  
; APPLICANT: Todd, John A  
; APPLICANT: Hess, John W  
; APPLICANT: Caskey, Charles T  
; APPLICANT: Cox, Roger D  
; APPLICANT: Gerhold, David  
; APPLICANT: Hammond, Holly  
; APPLICANT: Hey, Patricia  
; APPLICANT: Kawaguchi, Yoshihiko  
; APPLICANT: Merriman, Tony R  
; APPLICANT: Metzker, Michael L  
; TITLE OF INVENTION: No. 6555654el LDL-Receptor  
; NUMBER OF SEQUENCES: 455  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon and Vanderhye  
; STREET: 1100 No. 6555654th Glebe Road, Eighth Floor  
; CITY: Arlington  
; STATE: Virginia  
; COUNTRY: US  
; ZIP: VA 22201-4714  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/402,923A  
; FILING DATE: 14-FEB-2001  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: PCT/GB98/01102  
; FILING DATE: 15-APR-1998  
; APPLICATION NUMBER: US 60/043,553  
; FILING DATE: 15-APR-1997  
; APPLICATION NUMBER: US 60/048,740  
; FILING DATE: 05-JUN-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: B.J.Sadoff  
; REGISTRATION NUMBER: 36,663  
; REFERENCE/DOCKET NUMBER: 620-81  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (703)816-4091

TELEFAX: (703)816-4100  
INFORMATION FOR SEQ ID NO: 247:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 19 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
SEQUENCE DESCRIPTION: SEQ ID NO: 247:  
US-09-402-923A-247

Query Match 0.6%; Score 16; DB 1; Length 19;  
Best Local Similarity 100.0%; Pred. No. 76;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1581 CATCTTTGCCACCATG 1596  
|||||  
DB 4 CATCTTTGCCACCATG 19

RESULT 70  
US-09-336-643A-57/c  
; Sequence 57, Application US/09336643A  
; Patent No. 6399761  
; GENERAL INFORMATION:  
; APPLICANT: Miller, Andrew P.  
; APPLICANT: Curran, Mark Edward  
; APPLICANT: Hu, Ping  
; APPLICANT: Rutter, Marc  
; APPLICANT: Wang, Jian-Wang  
; TITLE OF INVENTION: No. 6399761el Human Potassium Channels  
; FILE REFERENCE: SEQ-15P  
; CURRENT APPLICATION NUMBER: US/09/336,643A  
; PRIOR FILING DATE: 1999-06-18  
; PRIOR APPLICATION NUMBER: 60/076,687  
; PRIOR FILING DATE: 1998-08-07  
; PRIOR APPLICATION NUMBER: 60/116,448  
; PRIOR FILING DATE: 1999-01-19  
; PRIOR APPLICATION NUMBER: PCT/US99/03826  
; PRIOR FILING DATE: 1999-02-22  
; NUMBER OF SEQ ID NOS: 87  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 57  
; LENGTH: 45  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Primer  
US-09-336-643A-57

Query Match 0.6%; Score 16; DB 1; Length 45;  
Best Local Similarity 62.5%; Pred. No. 1.7e-02;  
Matches 25; Conservative 0; Mismatches 15; Indels 0; Gaps 0;  
QY 2631 ATGCTCCAGTCTCTGCCACCCCTTTTCCACCC 2670  
|||||  
DB 44 ATGCTCCGATAGCCAGTGTGTCATGTGTGACCCACGCC 5

RESULT 71  
US-07-936-110-2  
; Sequence 2, Application US/07936110  
; Patent No. 5610052  
; GENERAL INFORMATION:  
; APPLICANT: James D. Thompson  
; APPLICANT: Kenneth G. Draper  
; TITLE OF INVENTION: METHOD AND REAGENT FOR  
; TREATMENT OF COLON CARCINOMA  
; NUMBER OF SEQUENCES: 26  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 611 West Sixth Street  
; CITY: Los Angeles  
; STATE: California

COUNTRY: USA  
ZIP: 90017  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS (Version 5.0)  
SOFTWARE: WordPerfect (Version 5.1)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/936,110  
FILING DATE: 19920826  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA: including application  
PRIOR APPLICATION DATA: described below:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 197/246  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 19  
TYPE: NUCLEIC ACID  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-07-936-110-2

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 81;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 634 GCGCGTCGAGCAGCAGCG 652  
|||||  
DB 1 GCGCGCGAGCAGCAGCG 19

RESULT 72  
US-08-777-918-2  
; Sequence 2, Application US/08777918  
; Patent No. 5801158  
; GENERAL INFORMATION:  
; APPLICANT: James D. Thompson  
; APPLICANT: Kenneth G. Draper  
; TITLE OF INVENTION: METHOD AND REAGENT FOR  
; TREATMENT OF COLON CARCINOMA  
; NUMBER OF SEQUENCES: 26  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 611 West Sixth Street  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: USA  
ZIP: 90017  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS (Version 5.0)  
SOFTWARE: WordPerfect (Version 5.1)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/777,918  
FILING DATE: 23-DEC-1996  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/936,110  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327

```
; REFERENCE/DOCKET NUMBER: 197/246
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 19
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-777-918-2

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 81;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 634 GCGGCTGCAGGACGAGCG 652
Db 1 GCGGCGGAGGACGAGCG 19

RESULT 73
US-09-823-549-44
; Sequence 44, Application US/09823549
; Patent No. 666442
; GENERAL INFORMATION:
; APPLICANT: McConlogue, Lisa C
; APPLICANT: Games, Kate D.
; APPLICANT: Yednock, Theodore A.
; APPLICANT: Hua, Tan
; APPLICANT: Messersmith, Elizabeth
; APPLICANT: Bard, Frederique
; TITLE OF INVENTION: SCREENING MARKERS AND METHODS FOR NEURODEGENERATIVE DISORDERS
; FILE REFERENCE: 015270-009110US
; CURRENT FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: US/09/823,549
; PRIOR FILING DATE: 2000-03-30
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 44
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: IL-10 reverse primer
US-09-823-549-44

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 81;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1459 CGCATCTCGGATCTTCA 1477
Db 1 CGCATCTCGAGGCTTCA 19

RESULT 74
US-08-367-069-17/c
; Sequence 17, Application US/08367069
; Patent No. 5811538
; GENERAL INFORMATION:
; APPLICANT: Timothy A. Riley
; APPLICANT: Mark A. Reynolds
; APPLICANT: Lloyd R. Snyder
; APPLICANT: Robert E. Klem
; TITLE OF INVENTION: IMPROVED PROCESS FOR THE
; PURIFICATION OF OLIGOMERS
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
```

```
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/367,069
; FILING DATE: December 30, 1994
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA: including application
; PRIOR APPLICATION DATA: described below: 1
; APPLICATION NUMBER: 08/176,851
; FILING DATE: 30 December 1993
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: BIGGS, SUZANNE L.
; REGISTRATION NUMBER: 30,158
; REFERENCE/DOCKET NUMBER: 210/209
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-367-069-17

Query Match          0.5%; Score 15.4; DB 1; Length 17;
Best Local Similarity 94.1%; Pred. No. 72;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 269 CCTGCTCTCTCTCTC 285
Db 17 CCTTCTCTCTCTCTC 1

RESULT 75
US-08-373-124A-178
; Sequence 178, Application US/08373124A
; Patent No. 5646042
; GENERAL INFORMATION:
; APPLICANT: Stinchcomb, Dan T.
; APPLICANT: Draper, Kenneth
; APPLICANT: McSwiggen, James
; APPLICANT: Jarvis, Thale
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR
; TREATMENT OF RESTENOSIS AND
; CANCER USING RIBOZYMES
; NUMBER OF SEQUENCES: 2627
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
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;/ CURRENT APPLICATION DATA:  
;/ APPLICATION NUMBER: US/08/373,124A  
;/ FILING DATE: January 13, 1995  
;/ PRIOR APPLICATION DATA:  
;/ APPLICATION NUMBER: 08/245,466  
;/ FILING DATE: May 18, 1994  
;/ APPLICATION NUMBER: 08/192,943  
;/ FILING DATE: February 7, 1994  
;/ APPLICATION NUMBER: 07/987,132  
;/ FILING DATE: December 7, 1992  
;/ APPLICATION NUMBER: 07/936,422  
;/ FILING DATE: August 26, 1992  
;/ ATTORNEY/AGENT INFORMATION:  
;/ NAME: Warburg, Richard  
;/ REGISTRATION NUMBER: 32,327  
;/ REFERENCE/DOCKET NUMBER: 209/035  
;/ TELECOMMUNICATION INFORMATION:  
;/ TELEPHONE: (213) 489-1600  
;/ TELEFAX: (213) 955-0440  
;/ TELEX: 67-3510  
;/ INFORMATION FOR SEQ ID NO: 178:  
;/ SEQUENCE CHARACTERISTICS:  
;/ LENGTH: 17 base pairs  
;/ TYPE: nucleic acid  
;/ STRANDEDNESS: single  
;/ TOPOLOGY: linear  
;/ US-08-373-124A-178

Query Match 0.5%; Score 15.4; DB 1; Length 17;  
Best Local Similarity 52.9%; Pred. No. 72;  
Matches 9; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY 292 CTCCTCCTCTCTCGT 308  
|:|:|:|:|:|:|:  
Db 1 CUCCUCCUCCUCCU 17

RESULT 76  
US-08-390-850-487/c  
; Sequence 487, Application US/08390850  
; Patent No. 5612215  
; GENERAL INFORMATION:  
; APPLICANT: Draper, Kenneth G.  
; APPLICANT: Pavco, Pamela  
; APPLICANT: McSwiggen, James  
; APPLICANT: Gustofson, John  
; APPLICANT: Stinchcomb, Dan T.  
; TITLE OF INVENTION: METHOD AND REAGENT FOR TREATMENT  
; NUMBER OF SEQUENCES: 1151  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: FastSEQ Version 1.5  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/390,850  
; FILING DATE: February 17, 1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/354,920  
; FILING DATE: December 13, 1994  
; APPLICATION NUMBER: 08/152,487  
; FILING DATE: December 7, 1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 211/084  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 563:  
; SEQUENCE CHARACTERISTICS:

;/ FILING DATE: December 7, 1992  
;/ ATTORNEY/AGENT INFORMATION:  
;/ NAME: Warburg, Richard  
;/ REGISTRATION NUMBER: 32,327  
;/ REFERENCE/DOCKET NUMBER: 211/084  
;/ TELECOMMUNICATION INFORMATION:  
;/ TELEPHONE: (213) 489-1600  
;/ TELEFAX: (213) 955-0440  
;/ TELEX: 67-3510  
;/ INFORMATION FOR SEQ ID NO: 487:  
;/ SEQUENCE CHARACTERISTICS:  
;/ LENGTH: 17 base pairs  
;/ TYPE: nucleic acid  
;/ STRANDEDNESS: single  
;/ TOPOLOGY: linear  
;/ US-08-390-850-487

Query Match 0.5%; Score 15.4; DB 1; Length 17;  
Best Local Similarity 94.1%; Pred. No. 72;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 512 TCATCATCAAGTGGGC 528  
|:|:|:|:|:|:|:  
Db 17 TCATCATCAAGTGGGC 1

RESULT 77  
US-08-390-850-563/c  
; Sequence 563, Application US/08390850  
; Patent No. 5612215  
; GENERAL INFORMATION:  
; APPLICANT: Draper, Kenneth G.  
; APPLICANT: Pavco, Pamela  
; APPLICANT: McSwiggen, James  
; APPLICANT: Gustofson, John  
; APPLICANT: Stinchcomb, Dan T.  
; TITLE OF INVENTION: METHOD AND REAGENT FOR TREATMENT  
; NUMBER OF SEQUENCES: 1151  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; STREET: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: FastSEQ Version 1.5  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/390,850  
; FILING DATE: February 17, 1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/354,920  
; FILING DATE: December 13, 1994  
; APPLICATION NUMBER: 08/152,487  
; FILING DATE: No. 5612215ember 12, 1993  
; APPLICATION NUMBER: 07/989,848  
; FILING DATE: December 7, 1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 211/084  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 563:  
; SEQUENCE CHARACTERISTICS:

```
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-390-850-563

Query Match      0.5%; Score 15.4; DB 1; Length 17;
Best Local Similarity 94.1%; Pred. No. 72;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 473 TGAAGGAGGAGATGGCC 489
Db 17 TGAAGGAGGAGATGGCC 1

RESULT 78
US-08-435-628-178
; Sequence 178, Application US/08435628
; Patent No. 5817796
; GENERAL INFORMATION:
; APPLICANT: Stinchcomb, Dan T.
; APPLICANT: Draper, Kenneth
; APPLICANT: McSwiggen, James
; APPLICANT: Jarvis, Thale
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR
; TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND
; TITLE OF INVENTION: CANCER USING RIBOZYMES
; NUMBER OF SEQUENCES: 2627
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Suite 4700
; STATE: Los Angeles
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/435,628
; FILING DATE: 05-MAY-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/373,124
; FILING DATE: January 13, 1995
; APPLICATION NUMBER: 08/245,466
; FILING DATE: May 18, 1994
; APPLICATION NUMBER: 08/192,943
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: 07/987,132
; FILING DATE: December 7, 1992
; APPLICATION NUMBER: 07/936,422
; FILING DATE: August 26, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 209/035
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 178:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-435-628-178

Query Match      0.5%; Score 15.4; DB 1; Length 17;
Best Local Similarity 94.1%; Pred. No. 72;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 512 TCATCATCAAGTGGGC 528
Db 17 TCATCATCAAGTGGGC 1

; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-390-850-563

Query Match      0.5%; Score 15.4; DB 1; Length 17;
Best Local Similarity 52.9%; Pred. No. 72;
Matches 9; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY 292 CTCCTCTCTCTCTCTGT 308
Db 1 CUCCUCCUCCUCCUCCU 17

RESULT 79
US-08-435-634-487/c
; Sequence 487, Application US/08435634
; Patent No. 5731295
; GENERAL INFORMATION:
; APPLICANT: Draper, Kenneth G.
; APPLICANT: Pavco, Pamela
; APPLICANT: McSwiggen, James
; APPLICANT: Gustofson, John
; APPLICANT: Stinchcomb, Dan T.
; TITLE OF INVENTION: METHOD AND REAGENT FOR TREATMENT
; TITLE OF INVENTION: OF ARTHRITIC CONDITIONS
; NUMBER OF SEQUENCES: 1151
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Suite 4700
; STATE: Los Angeles
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/435,634
; FILING DATE: 05-MAY-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/390,850
; FILING DATE: February 17, 1995
; APPLICATION NUMBER: 08/354,920
; FILING DATE: December 13, 1994
; APPLICATION NUMBER: 08/152,487
; FILING DATE: No. 5731295 September 12, 1993
; APPLICATION NUMBER: 07/989,848
; FILING DATE: December 7, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 211/084
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 487:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-435-634-487

Query Match      0.5%; Score 15.4; DB 1; Length 17;
Best Local Similarity 94.1%; Pred. No. 72;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 512 TCATCATCAAGTGGGC 528
Db 17 TCATCATCAAGTGGGC 1
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## RESULT 80

US-08-435-634-563/c  
; Sequence 563, Application US/08435634  
; Patent No. 5731295  
; GENERAL INFORMATION:  
; APPLICANT: Draper, Kenneth G.  
; APPLICANT: Pavco, Pamela  
; APPLICANT: McSwigen, James  
; APPLICANT: Gustofson, John  
; APPLICANT: Stinchcomb, Dan T.  
; TITLE OF INVENTION: METHOD AND REAGENT FOR TREATMENT  
; OF ARTHRITIC CONDITIONS  
; NUMBER OF SEQUENCES: 1151  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: FastSEQ Version 1.5  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/435,634  
; FILING DATE: 05-MAY-1995  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/390,850  
; FILING DATE: February 17, 1995  
; APPLICATION NUMBER: 08/354,920  
; FILING DATE: December 13, 1994  
; APPLICATION NUMBER: 08/152,487  
; FILING DATE: No. 5731295ember 12, 1993  
; APPLICATION NUMBER: 07/989,848  
; FILING DATE: December 7, 1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 211/084  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 563:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 17 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-435-634-563

Query Match 0.5%; Score 15.4; DB 1; Length 17;  
Best Local Similarity 94.1%; Pred. No. 72;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 473 TGAAGGAGGAGATGCC 489

Db 17 TGAAGGAGGAGATGCC 1

## RESULT 81

US-08-885-126-3/c  
; Sequence 3, Application US/08885126A  
; Patent No. 5955597  
; GENERAL INFORMATION:  
; APPLICANT: Arnold, Lyle J.  
; APPLICANT: Riley, Timothy A.

; APPLICANT: Reynolds, Mark A.  
; APPLICANT: Schwartz, David A.  
; TITLE OF INVENTION: CHIRALLY ENRICHED SYNTHETIC PHOSPHATE  
; FILE REFERENCE: OLIGOMERS  
; FILE REFERENCE: GENTA.020FW2  
; CURRENT APPLICATION NUMBER: US/08/885,126A  
; EARLIER FILING DATE: 1997-06-30  
; EARLIER APPLICATION NUMBER: 08/343,018  
; EARLIER FILING DATE: 1994-11-21  
; EARLIER APPLICATION NUMBER: 08/154,013  
; EARLIER FILING DATE: 1993-11-16  
; NUMBER OF SEQ ID NOS: 22  
; SOFTWARE: FastSEQ For Windows Version 3.0  
; SEQ ID NO 3  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Chemically synthesized oligomer  
US-08-885-126-3

Query Match 0.5%; Score 15.4; DB 1; Length 17;  
Best Local Similarity 94.1%; Pred. No. 72;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 269 COTGCTCTCTCTCTCTC 285

Db 17 COTGCTCTCTCTCTCTC 1

## RESULT 82

US-08-960-111-5/c  
; Sequence 5, Application US/08960111  
; Patent No. 6060456  
; GENERAL INFORMATION:  
; APPLICANT: Arnold Jr., Lyle J  
; APPLICANT: Reynolds, Mark A  
; APPLICANT: Giachetti, Christina  
; TITLE OF INVENTION: Chimeric Oligonucleoside Compounds  
; NUMBER OF SEQUENCES: 27  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 611 West Sixth St.  
; CITY: Los Angeles  
; STATE: CA  
; COUNTRY: U.S.A.  
; ZIP: 90017  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/960,111  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/238,177  
; FILING DATE: 04-MAY-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Meier, Paul H.  
; REGISTRATION NUMBER: 32,274  
; REFERENCE/DOCKET NUMBER: 207/174  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 213/489-1600  
; TELEFAX: 213/955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 5:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 17 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear

```
; MOLECULE TYPE: other nucleic acid
; HYPOTHETICAL: no
; ANTI-SENSE: yes
; FEATURE:
; NAME/KEY: GAG oligomer
; IDENTIFICATION METHOD: synthesis experiment
US-08-960-111-5

Query Match          0.5%; Score 15.4; DB 1; Length 17;
Best Local Similarity 94.1%; Pred. No. 72;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 269 CCTGCTCTCTCTCTC 285
Db 17 CCTTCTCTCTCTCTC 1

RESULT 83
US-09-490-774-5/C
; Sequence 5, Application US/09490774
; Patent No. 6262036
; GENERAL INFORMATION:
; APPLICANT: Arnold Jr., Lyle J
; APPLICANT: Reynolds, Mark A
; APPLICANT: Giachetti, Christina
; TITLE OF INVENTION: Chimeric Oligonucleoside Compounds
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 611 West Sixth St.
; CITY: Los Angeles
; STATE: CA
; COUNTRY: U.S.A.
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/490,774
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/960,111
; FILING DATE:
; APPLICATION NUMBER: US/08/238,177
; FILING DATE: 04-MAY-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Meier, Paul H.
; REGISTRATION NUMBER: 32,274
; REFERENCE/DOCKET NUMBER: 207/174
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 213/489-1600
; TELEFAX: 213/955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; HYPOTHETICAL: no
; ANTI-SENSE: yes
; FEATURE:
; NAME/KEY: GAG oligomer
; IDENTIFICATION METHOD: synthesis experiment
US-09-490-774-5

Query Match          0.5%; Score 15.4; DB 1; Length 17;
Best Local Similarity 94.1%; Pred. No. 72;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY 269 CCTGCTCTCTCTCTC 285
Db 17 CCTTCTCTCTCTCTC 1

RESULT 84
US-08-170-095B-31/C
; Sequence 31, Application US/08170095B
; Patent No. 5563254
; GENERAL INFORMATION:
; APPLICANT: Hoffman, Stephen J.
; APPLICANT: Nagai, Kiyoshi
; TITLE OF INVENTION: Blood Substitutes
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Somatogen, Inc.
; STREET: 2545 Central Avenue
; CITY: Boulder
; STATE: Colorado
; ZIP: 80301
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 Mb storage
; COMPUTER: Apple Macintosh
; OPERATING SYSTEM: System 7.0.1
; SOFTWARE: Microsoft Word 5.0a
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/170,095B
; FILING DATE: December 20, 1993
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5563254ak, Henry P.
; REGISTRATION NUMBER: 33200
; REFERENCE/DOCKET NUMBER: Hoffman 2A/CONT2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 303-541-3322
; TELEFAX: 303-444-3013
; INFORMATION FOR SEQ ID NO: 31:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: unknown to applicant
; MOLECULE TYPE: Other nucleic acid
; DESCRIPTION: primer
; HYPOTHETICAL: no
US-08-170-095B-31

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 81;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1224 GGTAGAAACAGAACCCA 1240
Db 17 GGTAGAAACAGAACCCA 1

RESULT 85
US-08-319-492B-737
; Sequence 737, Application US/08319492B
; Patent No. 5616488
; GENERAL INFORMATION:
; APPLICANT: Sullivan, Sean M.
; APPLICANT: Draper, Kenneth G.
; APPLICANT: McSwiggen, James
; APPLICANT: Stinchcomb, Dan T.
; TITLE OF INVENTION: RIBOZYME TREATMENT OF DISEASES
; TITLE OF INVENTION: OR CONDITIONS RELATED TO LEVELS
; TITLE OF INVENTION: OF IL-5
; NUMBER OF SEQUENCES: 751
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
```

STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/319,492B  
FILING DATE: October 7, 1994  
PRIOR APPLICATION DATA:  
PRIOR APPLICATION DATA: including application  
PRIOR APPLICATION DATA: described below:  
APPLICATION NUMBER: 08/008,895  
FILING DATE: January 19, 1993  
APPLICATION NUMBER: 07/989,849  
FILING DATE: December 7, 1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 209/276  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 737:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-319-492B-737

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 64.7%; Pred. No. 81;  
Matches 11; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 266 CCTCTGCTCTCTCTC 282  
DB 2 CCUCCUGCCUCCUUC 18

RESULT 86  
US-08-396-866-31/c  
Sequence 31, Application US/08396866  
Patent No. 5661124  
GENERAL INFORMATION:  
APPLICANT: Hoffman, Stephen J.  
TITLE OF INVENTION: Blood Substitutes  
NUMBER OF SEQUENCES: 34  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Somatogen, Inc.  
STREET: 5797 Central Avenue  
CITY: Boulder  
STATE: Colorado  
ZIP: 80301  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 1.4 Mb storage  
COMPUTER: Apple Macintosh  
OPERATING SYSTEM: System 7.0.1  
SOFTWARE: Microsoft Word 5.0a  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/396,866  
FILING DATE:  
CLASSIFICATION: 530  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/062,780  
FILING DATE: May 17, 1993

ATTORNEY/AGENT INFORMATION:  
NAME: No. 5661124ak, Henry P.  
REGISTRATION NUMBER: 33200  
REFERENCE/DOCKET NUMBER: Hoffman  
REFERENCE/DOCKET NUMBER: 2A/CONT1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 303-541-3322  
TELEFAX: 303-444-3013  
INFORMATION FOR SEQ ID NO: 31:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: unknown to applicant  
MOLECULE TYPE: Other nucleic acid  
DESCRIPTION: primer  
HYPOTHETICAL: no  
US-08-396-866-31

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 81;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1224 GGTAGAAACAGAACCCA 1240  
DB 17 GGTAGAAACAGAACCCA 1

RESULT 87  
US-08-679-645-1165/c  
Sequence 1165, Application US/08679645  
Patent No. 6350934  
GENERAL INFORMATION:  
APPLICANT: Zwick, Michael G.  
APPLICANT: Edington, Brent E.  
APPLICANT: McSwiggen, James A.  
APPLICANT: Merlo, Patricia Ann Owens  
APPLICANT: Guo, Lining  
APPLICANT: Skokut, Thomas A.  
APPLICANT: Young, Scott A.  
APPLICANT: Folkerts, Otto  
APPLICANT: Merlo, Donald J.  
TITLE OF INVENTION: COMPOSITION AND METHODS FOR  
TITLE OF INVENTION: MODULATION OF GENE EXPRESSION  
TITLE OF INVENTION: IN PLANTS  
NUMBER OF SEQUENCES: 1263  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071-2066  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/679,645  
FILING DATE: July 12, 1996  
CLASSIFICATION: 800  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/001,135  
FILING DATE: July 13, 1995  
APPLICATION NUMBER: 08/300,726  
FILING DATE: September 2, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 219/247

TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 1165:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-679-645-1165

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 81;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCGGCGGCGGCGGCGG 672  
||| ||||| ||||| |||||  
Db 18 GCGGCGGCGGCGGCGG 2

RESULT 88  
US-08-857-946-14  
Sequence 14, Application US/08857946  
Patent No. 5994075  
GENERAL INFORMATION:  
APPLICANT: Goodfellow, P.N.  
TITLE OF INVENTION: METHODS FOR IDENTIFYING A MUTATION IN A  
TITLE OF INVENTION: GENE OF INTEREST  
NUMBER OF SEQUENCES: 162  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Banner & Witcoff, Inc.  
STREET: 75 State Street  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109-1807  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WordPerfect 6.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/857,946  
FILING DATE: 16-MAY-1997  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/60/017,824  
FILING DATE: 17-MAY-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Kathleen M. Williams  
REGISTRATION NUMBER: 34,380  
REFERENCE/DOCKET NUMBER: 3529/05573  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-345-9100  
TELEFAX: 617-345-9111  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 bases  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: other nucleic acid  
US-08-857-946-14

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 81;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGGCGGCGGCGG 675  
||| ||||| ||||| |||||  
Db 1 GCGGCGGCGGCGGCGG 17

RESULT 99  
US-08-863-639A-17/C  
Sequence 17, Application US/08863639A  
Patent No. 5981185  
GENERAL INFORMATION:  
APPLICANT: Matson, Robert S.  
APPLICANT: Coassin, Peter J.  
APPLICANT: Rampal, Jang B.  
APPLICANT: Caskey, C. T.  
TITLE OF INVENTION: OLIGONUCLEOTIDE REPEAT ARRAYS  
NUMBER OF SEQUENCES: 95  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Sheldon & Mak  
STREET: 225 South Lake Avenue, 9th Floor  
CITY: Pasadena  
STATE: CA  
COUNTRY: USA  
ZIP: 91101  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage  
COMPUTER: IBM compatible  
OPERATING SYSTEM: Windows 95  
SOFTWARE: Corel WordPerfect 8 version  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/863,639A  
FILING DATE: May 28, 1997  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Joseph E. Mueth  
REGISTRATION NUMBER: 20,532  
REFERENCE/DOCKET NUMBER: 11859-1  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (626) 796-4000  
TELEFAX: (626) 795-6321  
INFORMATION FOR SEQ ID NO: 17:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: Other nucleic acid  
US-08-863-639A-17

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 81;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCGAGCAGC 660  
||| ||||| ||||| |||||  
Db 18 GCAGCAGCGAGCAGCAGC 2

RESULT 90  
US-08-970-740-14  
Sequence 14, Application US/08970740  
Patent No. 6015670  
GENERAL INFORMATION:  
APPLICANT: Goodfellow, P.N.  
TITLE OF INVENTION: METHODS FOR IDENTIFYING A MUTATION IN A  
TITLE OF INVENTION: GENE OF INTEREST  
NUMBER OF SEQUENCES: 162  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Banner & Witcoff, Inc.  
STREET: 28 State Street, 28th Floor  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WordPerfect 6.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/970,740  
FILING DATE: 14-NOV-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/857,946  
FILING DATE: 16-MAY-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/017,824  
FILING DATE: 17-MAY-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Kathleen M. Williams  
REGISTRATION NUMBER: 34,380  
REFERENCE/DOCKET NUMBER: 3529/59829  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-227-7111  
TELEFAX: 617-227-4399  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 bases  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLSCULE TYPE: other nucleic acid  
US-08-970-740-14

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 81;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGGCGGCGGCGC 675  
DB 1 GCGGCGGCGGCGGCGC 17

RESULT 91  
US-09-500-700-68  
Sequence 68, Application US/09500700  
Patent No. 6790941  
GENERAL INFORMATION:  
APPLICANT: THE SCRIPPS RESEARCH INSTITUTE  
APPLICANT: BARBAS III, Carlos F.  
APPLICANT: GOTTESFELD, Joel M.  
APPLICANT: WRIGHT, Peter E.  
TITLE OF INVENTION: ZINC FINGER PROTEIN DERIVATIVES AND METHODS THEREFOR  
FILE REFERENCE: SCRIPI160-4  
CURRENT APPLICATION NUMBER: US/09/500,700  
CURRENT FILING DATE: 2003-01-10  
PRIOR APPLICATION NUMBER: US 08/863,813  
PRIOR FILING DATE: 1997-05-27  
PRIOR APPLICATION NUMBER: US 08/676,318  
PRIOR FILING DATE: 1996-12-30  
PRIOR APPLICATION NUMBER: PCT/US95/00829  
PRIOR FILING DATE: 1995-01-18  
PRIOR APPLICATION NUMBER: US 08/312,604  
PRIOR FILING DATE: 1994-09-28  
PRIOR APPLICATION NUMBER: US 08/183,119  
PRIOR FILING DATE: 1994-01-18  
NUMBER OF SEQ ID NOS: 127  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 68  
LENGTH: 18  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: (GCG)6 probe  
US-09-500-700-68

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 81;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGGCGGCGGCGC 675

Db 1 GCGGCGGCGGCGGCGC 17

RESULT 92  
US-09-920-760-24/c  
Sequence 24, Application US/09920760  
Patent No. 6492173  
GENERAL INFORMATION:  
APPLICANT: Lex M. Cowsett  
TITLE OF INVENTION: ANTISENSE MODULATION OF CYCLIN D2 EXPRESSION  
FILE REFERENCE: RTS-0275  
CURRENT APPLICATION NUMBER: US/09/920,760  
CURRENT FILING DATE: 2001-08-01  
NUMBER OF SEQ ID NOS: 89  
SEQ ID NO 24  
LENGTH: 18  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Antisense Oligonucleotide  
US-09-920-760-24

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 81;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1334 AGAACCTGCTCAACATC 1350  
DB 18 AGAACCTGCTCAACATC 2

RESULT 93  
US-08-373-124A-176  
Sequence 176, Application US/08373124A  
Patent No. 5646042  
GENERAL INFORMATION:  
APPLICANT: Stinchcomb, Dan T.  
APPLICANT: Draper, Kenneth  
APPLICANT: McSwiggen, James  
APPLICANT: Jarvis, Thale  
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR  
TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND  
TITLE OF INVENTION: CANCER USING RIBOZYMES  
NUMBER OF SEQUENCES: 2627  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/373,124A  
FILING DATE: January 13, 1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/245,466  
FILING DATE: May 18, 1994  
APPLICATION NUMBER: 08/192,943  
FILING DATE: February 7, 1994  
APPLICATION NUMBER: 07/987,132  
FILING DATE: December 7, 1992  
APPLICATION NUMBER: 07/936,422  
FILING DATE: August 26, 1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard

```
;
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 209/035
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 176:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-08-373-124A-176

Query Match 0.5%; Score 15; DB 1; Length 17;
Best Local Similarity 60.0%; Pred. No. 81;
Matches 9; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 291 CCTCCTCCTCCTTCT 305
Db 3 CCUCCUCCUCCUUCU 17

RESULT 94
US-08-435-628-176
; Sequence 176, Application US/08435628
; Patent No. 5817796
; GENERAL INFORMATION:
; APPLICANT: Stinchcomb, Dan T.
; APPLICANT: Draper, Kenneth
; APPLICANT: McSwigen, James
; APPLICANT: Jarvis, Thale
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR
; TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND
; TITLE OF INVENTION: CANCER USING RIBOZYMES
; NUMBER OF SEQUENCES: 2627
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/435,628
; FILING DATE: 05-MAY-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/373,124
; FILING DATE: January 13, 1995
; APPLICATION NUMBER: 08/245,466
; FILING DATE: May 18, 1994
; APPLICATION NUMBER: 08/192,943
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: 07/987,132
; FILING DATE: December 7, 1992
; APPLICATION NUMBER: 07/936,422
; FILING DATE: August 26, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 209/035
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
;
; INFORMATION FOR SEQ ID NO: 176:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-08-435-628-176

Query Match 0.5%; Score 15; DB 1; Length 17;
Best Local Similarity 60.0%; Pred. No. 81;
Matches 9; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 291 CCTCCTCCTCCTTCT 305
Db 3 CCUCCUCCUCCUUCU 17

RESULT 95
US-09-809-713-3/c
; Sequence 3, Application US/09809713
; Patent No. 6428964
; GENERAL INFORMATION:
; APPLICANT: Shuber, Anthony
; TITLE OF INVENTION: Method For Alteration Detection
; FILE REFERENCE: EXT-047
; CURRENT APPLICATION NUMBER: US/09/809,713
; CURRENT FILING DATE: 2001-03-15
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: probe upstream of the 1450 point mutation region
;
US-09-809-713-3

Query Match 0.5%; Score 15; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 81;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 283 CTCACCCACCTCTC 297
Db 17 CTCACCCACCTCTC 3

RESULT 96
PCT-US94-10261A-10
; Sequence 10, Application PC/TUS9410261A
; GENERAL INFORMATION:
; APPLICANT: Carter, William G.
; APPLICANT: Gil, Susanna A.
; APPLICANT: Ryan, Maureen C.
; TITLE OF INVENTION: Epiligrin, an Epithelial Ligand for
; TITLE OF INVENTION: Integrins
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Christensen, O'Connor, Johnson, and Kindness
; STREET: 1420 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98101-8100
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/10261A
; FILING DATE: 02-SEP-1994
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
```



```
; NAME: Shelton, Dennis K.
; REGISTRATION NUMBER: 26,997
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 682-8100
; TELEFAX: (206) 224-0779
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA to mRNA
; DESCRIPTION: PCR primer; see TABLE 1
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
PCT-US94-10261A-10

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 97;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2810 AAGTCAGTTGAAGGCACG 2827
Db 1 AAGTCACCTGAAGGCACG 18

RESULT 97
PCT-US96-11786-42/c
; Sequence 42, Application PC/TUS9611786
; GENERAL INFORMATION:
; APPLICANT: Rando, Robert F.
; APPLICANT: Fennwald, Susan
; APPLICANT: Zendequi, Joseph G.
; APPLICANT: Ojwang, Joshua O.
; APPLICANT: Hogan, Michael E.
; APPLICANT: Pommier, Yves
; APPLICANT: Mazunder, Abhijit
; TITLE OF INVENTION: Anti-Viral Guanosine-Rich
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Conley, Rose & Tayon, P.C.
; STREET: 600 Travis, Suite 1850
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77002-2912
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/11786
; FILING DATE: 17-JULY-1996
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/535,168; 60/001,505; 60/014,007; 60/013,688;
; APPLICATION NUMBER: 60/015,714; 60/016,271
; FILING DATE: 23-OCT-95; 17-JULY-96; 25-MARCH-96; 19-MARCH-96; 23-
; FILING DATE: APRIL-96; 17-APRIL-96
; ATTORNEY/AGENT INFORMATION:
; NAME: McDaniel, C. Steven
; REGISTRATION NUMBER: 33,962
; REFERENCE/DOCKET NUMBER: 1472-06214
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/238-8010
; TELEFAX: 713/238-8008
; INFORMATION FOR SEQ ID NO: 42:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid

PCT-US96-11786-43/c
; Sequence 43, Application PC/TUS9611786
; GENERAL INFORMATION:
; APPLICANT: Rando, Robert F.
; APPLICANT: Fennwald, Susan
; APPLICANT: Zendequi, Joseph G.
; APPLICANT: Ojwang, Joshua O.
; APPLICANT: Hogan, Michael E.
; APPLICANT: Pommier, Yves
; APPLICANT: Mazunder, Abhijit
; TITLE OF INVENTION: Anti-Viral Guanosine-Rich
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Conley, Rose & Tayon, P.C.
; STREET: 600 Travis, Suite 1850
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77002-2912
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/11786
; FILING DATE: 17-JULY-1996
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/535,168; 60/001,505; 60/014,007; 60/013,688;
; APPLICATION NUMBER: 60/015,714; 60/016,271
; FILING DATE: 23-OCT-95; 17-JULY-96; 25-MARCH-96; 19-MARCH-96; 23-
; FILING DATE: APRIL-96; 17-APRIL-96
; ATTORNEY/AGENT INFORMATION:
; NAME: McDaniel, C. Steven
; REGISTRATION NUMBER: 33,962
; REFERENCE/DOCKET NUMBER: 1472-06214
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/238-8010
; TELEFAX: 713/238-8008
; INFORMATION FOR SEQ ID NO: 43:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 18
; OTHER INFORMATION: /note= "Amine moiety
; OTHER INFORMATION: attached to 3' end"
PCT-US96-11786-42

QY 206 GGGGGGGTGGGTGGGGG 223
Db 18 GGGGGGGGGGGGGGGGG 1

RESULT 98
PCT-US96-11786-43/c
; Sequence 43, Application PC/TUS9611786
; GENERAL INFORMATION:
; APPLICANT: Rando, Robert F.
; APPLICANT: Fennwald, Susan
; APPLICANT: Zendequi, Joseph G.
; APPLICANT: Ojwang, Joshua O.
; APPLICANT: Hogan, Michael E.
; APPLICANT: Pommier, Yves
; APPLICANT: Mazunder, Abhijit
; TITLE OF INVENTION: Anti-Viral Guanosine-Rich
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Conley, Rose & Tayon, P.C.
; STREET: 600 Travis, Suite 1850
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77002-2912
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/11786
; FILING DATE: 17-JULY-1996
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/535,168; 60/001,505; 60/014,007; 60/013,688;
; APPLICATION NUMBER: 60/015,714; 60/016,271
; FILING DATE: 23-OCT-95; 17-JULY-96; 25-MARCH-96; 19-MARCH-96; 23-
; FILING DATE: APRIL-96; 17-APRIL-96
; ATTORNEY/AGENT INFORMATION:
; NAME: McDaniel, C. Steven
; REGISTRATION NUMBER: 33,962
; REFERENCE/DOCKET NUMBER: 1472-06214
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/238-8010
; TELEFAX: 713/238-8008
; INFORMATION FOR SEQ ID NO: 43:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 18
; OTHER INFORMATION: /note= "Amine moiety
; OTHER INFORMATION: attached to 3' end and phosphorothioate
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```
; OTHER INFORMATION: backbone"
PCT-US96-11786-43

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 97;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGG 223
Db 18 GGGGGGGGGGGGGGGGG 1

RESULT 99
US-08-145-704-42/c
; Sequence 42, Application US/08145704
; Patent No. 5567604
; GENERAL INFORMATION:
; APPLICANT: Rando, Robert F.
; APPLICANT: Fennewald, Susan
; APPLICANT: Zendequi, Joseph G.
; APPLICANT: Joshua O. Ojwang
; TITLE OF INVENTION: Anti-Viral Guanosine-Rich
; TITLE OF INVENTION: Oligonucleotides
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/145,704
; FILING DATE: 28-OCT-1993
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/053,027
; FILING DATE: 23-APR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5574-CIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5151
; TELEFAX: 713/651-5246
; TELEX: 762829
; INFORMATION FOR SEQ ID NO: 42:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 18
; OTHER INFORMATION: /note= "Amine moiety attached to 3'"
; OTHER INFORMATION: end"
US-08-145-704-42

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 97;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGG 223
Db 18 GGGGGGGGGGGGGGGGG 1

RESULT 100
US-08-145-704-43/c
; Sequence 43, Application US/08145704
; Patent No. 5567604
; GENERAL INFORMATION:
; APPLICANT: Rando, Robert F.
; APPLICANT: Fennewald, Susan
; APPLICANT: Zendequi, Joseph G.
; APPLICANT: Joshua O. Ojwang
; TITLE OF INVENTION: Anti-Viral Guanosine-Rich
; TITLE OF INVENTION: Oligonucleotides
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/145,704
; FILING DATE: 28-OCT-1993
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/053,027
; FILING DATE: 23-APR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5574-CIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5151
; TELEFAX: 713/651-5246
; TELEX: 762829
; INFORMATION FOR SEQ ID NO: 43:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 18
; OTHER INFORMATION: /note= "Amine moiety attached to 3'"
; OTHER INFORMATION: end and phosphorothioate backbone"
US-08-145-704-43

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 97;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGG 223
Db 18 GGGGGGGGGGGGGGGGG 1

RESULT 101
US-08-358-556A-24/c
; Sequence 24, Application US/08358556A
; Patent No. 5869643
; GENERAL INFORMATION:
; APPLICANT: Chatelain, Francois
; APPLICANT: Kumarev, Viktor
; TITLE OF INVENTION: Process for Preparing Polynucleotides on
; TITLE OF INVENTION: a Solid Support and Apparatus Permitting its
; TITLE OF INVENTION: Implementation
```

```

; NUMBER OF SEQUENCES: 31
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jacobson, Price, Holman & Stern
; STREET: 400 Seventh St. N.W.
; CITY: Washington D.C.
; COUNTRY: U.S.A.
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/358,556A
; FILING DATE: 14-DEC-1994
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PR 9315164
; FILING DATE: 16-DEC-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Player, William E.
; REGISTRATION NUMBER: 31,409
; REFERENCE/DOCKET NUMBER: 10577/P58418
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 638-6666
; TELEFAX: (202) 393-5350
; TELEX: RCA 248593 IDEA UR
; INFORMATION FOR SEQ ID NO: 24:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: N-terminal
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..18
; US-08-358-556A-24

```

```

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 97;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

Qy 206 GGGGGGTGGGGTGGGGG 223
Db 18 GGGGGGGGGGGGGGGGGG 1

```

```

RESULT 102
US-08-462-646-110
; Sequence 110, Application US/08462646
; Patent No. 5856088
; GENERAL INFORMATION:
; APPLICANT: Sherrol H. McDonough, Thomas B. Ryder,
; APPLICANT: Yeasing Yang
; TITLE OF INVENTION: NUCLEIC ACID AMPLIFICATION
; TITLE OF INVENTION: OLIGONUCLEOTIDES AND PROBES
; TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS TYPE 1
; NUMBER OF SEQUENCES: 139
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 611 West Sixth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
; COMPUTER: IBM PS/2 Model 502 or 55SX
; OPERATING SYSTEM: IBM P.C. DOS (Version 3.30)
; SOFTWARE: WordPerfect (Version 5.0)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/462,646
; FILING DATE: 05-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/040,745
; FILING DATE: 26-MAR-1993
; APPLICATION NUMBER: U.S. Serial No. 5856088 07/550,837
; FILING DATE: 7/10/90
; APPLICATION NUMBER: U.S. Serial No. 5856088 07/379,501
; FILING DATE: 7/11/89
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.

```

```

; SOFTWARE: WordPerfect (Version 5.0)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/462,646
; FILING DATE: 05-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/040,745
; FILING DATE: 26-MAR-1993
; APPLICATION NUMBER: U.S. Serial No. 5856088 07/550,837
; FILING DATE: 7/10/90
; APPLICATION NUMBER: U.S. Serial No. 5856088 07/379,501
; FILING DATE: 7/11/89
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 196/189
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 110:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-462-646-110

```

```

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 55.6%; Pred. No. 97;
Matches 10; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

```

```

Qy 1575 TGTGCTCATCTTGGCCAC 1592
Db 1 UGUGCCUUUUUUGCCAC 18

```

```

RESULT 103
US-08-462-646-30
; Sequence 30, Application US/08462646
; Patent No. 5856088
; GENERAL INFORMATION:
; APPLICANT: Sherrol H. McDonough, Thomas B. Ryder,
; APPLICANT: Yeasing Yang
; TITLE OF INVENTION: NUCLEIC ACID AMPLIFICATION
; TITLE OF INVENTION: OLIGONUCLEOTIDES AND PROBES
; TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS TYPE 1
; NUMBER OF SEQUENCES: 139
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 611 West Sixth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
; COMPUTER: IBM PS/2 Model 502 or 55SX
; OPERATING SYSTEM: IBM P.C. DOS (Version 3.30)
; SOFTWARE: WordPerfect (Version 5.0)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/462,646
; FILING DATE: 05-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/040,745
; FILING DATE: 26-MAR-1993
; APPLICATION NUMBER: U.S. Serial No. 5856088 07/550,837
; FILING DATE: 7/10/90
; APPLICATION NUMBER: U.S. Serial No. 5856088 07/379,501
; FILING DATE: 7/11/89
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.

```

```
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 196/189
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 30:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-462-646-30

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 97;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1575 TGTGCTCATCTTTGCCAC 1592
Db 1 TGTGCCCTTCTTTGCCAC 18

RESULT 104
US-08-479-852-110
; Sequence 110, Application US/08479852
; Patent No. 5712385
; GENERAL INFORMATION:
; APPLICANT: Sherrol H. McDonough, Thomas B. Ryder,
; APPLICANT: Yeasing Yang
; TITLE OF INVENTION: NUCLEIC ACID AMPLIFICATION
; TITLE OF INVENTION: OLIGONUCLEOTIDES AND PROBES
; TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS TYPE 1
; NUMBER OF SEQUENCES: 139
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 611 West Sixth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
; COMPUTER: IBM PS/2 Model 50Z or 55SX
; OPERATING SYSTEM: IBM P.C. DOS (Version 3.30)
; SOFTWARE: WordPerfect (Version 5.0)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/479,852
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/040,745
; FILING DATE:
; APPLICATION NUMBER: U.S. Serial No. 5712385 07/550,837
; FILING DATE: 7/10/90
; APPLICATION NUMBER: U.S. Serial No. 5712385 07/379,501
; FILING DATE: 7/11/89
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 196/189
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 110:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-479-852-110
```

```
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 55.6%; Pred. No. 97;
Matches 10; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1575 TGTGCTCATCTTTGCCAC 1592
Db 1 UGUGCCCUUUCUUGGCAC 18

RESULT 105
US-08-479-852-30
; Sequence 30, Application US/08479852
; Patent No. 5712385
; GENERAL INFORMATION:
; APPLICANT: Sherrol H. McDonough, Thomas B. Ryder,
; APPLICANT: Yeasing Yang
; TITLE OF INVENTION: NUCLEIC ACID AMPLIFICATION
; TITLE OF INVENTION: OLIGONUCLEOTIDES AND PROBES
; TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS TYPE 1
; NUMBER OF SEQUENCES: 139
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 611 West Sixth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
; COMPUTER: IBM PS/2 Model 50Z or 55SX
; OPERATING SYSTEM: IBM P.C. DOS (Version 3.30)
; SOFTWARE: WordPerfect (Version 5.0)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/479,852
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/040,745
; FILING DATE:
; APPLICATION NUMBER: U.S. Serial No. 5712385 07/550,837
; FILING DATE: 7/10/90
; APPLICATION NUMBER: U.S. Serial No. 5712385 07/379,501
; FILING DATE: 7/11/89
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 196/189
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 30:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-479-852-30

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 97;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1575 TGTGCTCATCTTTGCCAC 1592
Db 1 TGTGCCCTTCTTTGCCAC 18

RESULT 106
US-08-535-168-42/c
; Sequence 42, Application US/08535168
; Patent No. 6184369
; GENERAL INFORMATION:
```

```

; APPLICANT: Rando, Robert F.
; APPLICANT: Fennewald, Susan
; APPLICANT: Zendequi, Joseph G.
; APPLICANT: Ojwang, Joshua O.
; APPLICANT: Hogan, Michael E.
; TITLE OF INVENTION: Anti-Viral Guanosine-Rich
; TITLE OF INVENTION: Oligonucleotides
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION NUMBER: US/08/535,168
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5574-CIP
; TELEPHONE: 713/651-5151
; TELEFAX: 713/651-5246
; TELEX: 762829
; INFORMATION FOR SEQ ID NO: 42:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 18
; OTHER INFORMATION: /note= "Amine moiety
; OTHER INFORMATION: attached to 3' end"
US-08-535-168-42

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 97;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGGTGGGG 223
Db 18 GGGGGGGGGGGGGGGGG 1

RESULT 107
US-08-535-168-43/c
; Sequence 43, Application US/08535168
; Patent No. 6184369
; GENERAL INFORMATION:
; APPLICANT: Rando, Robert F.
; APPLICANT: Fennewald, Susan
; APPLICANT: Zendequi, Joseph G.
; APPLICANT: Ojwang, Joshua O.
; APPLICANT: Hogan, Michael E.
; TITLE OF INVENTION: Anti-Viral Guanosine-Rich
; TITLE OF INVENTION: Oligonucleotides
; NUMBER OF SEQUENCES: 52
```

```

; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION NUMBER: US/08/535,168
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/04529
; FILING DATE: 28-OCT-1993
; APPLICATION NUMBER: US 08/053,027
; FILING DATE: 23-APR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5574-CIP
; TELEPHONE: 713/651-5151
; TELEFAX: 713/651-5246
; TELEX: 762829
; INFORMATION FOR SEQ ID NO: 43:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 18
; OTHER INFORMATION: /note= "Amine moiety
; OTHER INFORMATION: attached to 3' end and phosphorothioate
US-08-535-168-43

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 97;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGGTGGGG 223
Db 18 GGGGGGGGGGGGGGGGG 1

RESULT 108
US-08-600-982-10
; Sequence 10, Application US/08600982
; Patent No. 6120991
; GENERAL INFORMATION:
; APPLICANT: Carter, William G.
; APPLICANT: Gil, Susanna A.
; APPLICANT: Ryan, Maureen C.
; TITLE OF INVENTION: Epiligrin, an Epithelial Ligand for
; TITLE OF INVENTION: Integrins
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Christensen, O'Connor, Johnson, and Kindness
; STREET: 1420 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98101-8100
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
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; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/600,982
; FILING DATE: 02-SEP-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Shelton, Dennis K.
; REGISTRATION NUMBER: 26,997
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 682-8100
; TELEFAX: (206) 224-0779
; INFORMATION FOR SEQ ID NO: 10:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA to mRNA
; DESCRIPTION: PCR primer; see TABLE 1
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
;
US-08-600-982-10

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 97;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2810 AAGTCAGTTGAAGGCACG 2827
Db 1 AAGTCACCTGAAGGCACG 18

RESULT 109
US-08-679-645-1167/c
; Sequence 1167, Application US/08679645
; Patent No. 6350934
; GENERAL INFORMATION:
; APPLICANT: Zwick, Michael G.
; APPLICANT: Edington, Brent E.
; APPLICANT: McSwiggen, James A.
; APPLICANT: Merlo, Patricia Ann Owens
; APPLICANT: Guo, Lining
; APPLICANT: Skokut, Thomas A.
; APPLICANT: Young, Scott A.
; APPLICANT: Folkerts, Otto
; APPLICANT: Merlo, Donald J.
; TITLE OF INVENTION: COMPOSITION AND METHODS FOR
; TITLE OF INVENTION: MODULATION OF GENE EXPRESSION
; NUMBER OF SEQUENCES: 1263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/679,645
; FILING DATE: July 12, 1996
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/001,135
; FILING DATE: July 13, 1995
; APPLICATION NUMBER: 08/300,726
; FILING DATE: September 2, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 219/247
```

```
;
; FILING DATE: July 13, 1995
; APPLICATION NUMBER: 08/300,726
; FILING DATE: September 2, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 219/247
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 1167:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-08-679-645-1167

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 97;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCACGACGCGCGCGCGCG 670
Db 18 GCTGCGCGCGCGCGCGCG 1

RESULT 110
US-08-679-645-1169/c
; Sequence 1169, Application US/08679645
; Patent No. 6350934
; GENERAL INFORMATION:
; APPLICANT: Zwick, Michael G.
; APPLICANT: Edington, Brent E.
; APPLICANT: McSwiggen, James A.
; APPLICANT: Merlo, Patricia Ann Owens
; APPLICANT: Guo, Lining
; APPLICANT: Skokut, Thomas A.
; APPLICANT: Young, Scott A.
; APPLICANT: Folkerts, Otto
; APPLICANT: Merlo, Donald J.
; TITLE OF INVENTION: COMPOSITION AND METHODS FOR
; TITLE OF INVENTION: MODULATION OF GENE EXPRESSION
; NUMBER OF SEQUENCES: 1263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/679,645
; FILING DATE: July 12, 1996
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/001,135
; FILING DATE: July 13, 1995
; APPLICATION NUMBER: 08/300,726
; FILING DATE: September 2, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 219/247
```

TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 1169:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-679-645-1169

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 97;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGCG 670  
DB 18 GCTGCTGCGCGCGCGCG 1

## RESULT 111

US-08-682-255A-42/c  
Sequence 42, Application US/08682255A  
Patent No. 6323185

## GENERAL INFORMATION:

APPLICANT: Rando, Robert F.  
APPLICANT: Fennelwald, Susan  
APPLICANT: Zendequi, Joseph G.  
APPLICANT: Ojwang, Joshua O.  
APPLICANT: Hogan, Michael E.  
APPLICANT: Pommier, Eyles  
APPLICANT: Mazumder, Abhijit  
TITLE OF INVENTION: Anti-Viral Guanosine-Rich  
TITLE OF INVENTION: Oligonucleotides  
NUMBER OF SEQUENCES: 87  
CORRESPONDENCE ADDRESS:

ADDRESSEE: Conley, Rose & Tayon, P.C.  
STREET: 600 Travis, Suite 1850  
CITY: Houston  
STATE: Texas  
COUNTRY: U.S.A.  
ZIP: 77002-2912

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: MS Windows 95  
SOFTWARE: MS Word 97 (saved as .txt file)  
CURRENT APPLICATION DATA:  
FILING DATE: 17-JULY-1996  
CLASSIFICATION: 435

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/535,168  
FILING DATE: 23-OCT-95  
APPLICATION NUMBER: 60/001,505  
FILING DATE: 19-JULY-95  
APPLICATION NUMBER: 60/014,007  
FILING DATE: 25-MARCH-96  
APPLICATION NUMBER: 60/013,688  
FILING DATE: 19-MARCH-96  
APPLICATION NUMBER: 60/015,714  
FILING DATE: 17-APRIL-96  
APPLICATION NUMBER: 60/016,271  
FILING DATE: 23-APRIL-96  
ATTORNEY/AGENT INFORMATION:

NAME: McDaniel, C. Steven  
REGISTRATION NUMBER: 33,962  
REFERENCE/DOCKET NUMBER: 1472-06214  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 713/238-8010  
TELEFAX: 713/238-8008  
INFORMATION FOR SEQ ID NO: 42:

SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: 18  
OTHER INFORMATION: /note= "Amine moiety  
OTHER INFORMATION: attached to 3' end"  
US-08-682-255A-42

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 97;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GCGGCGGTGGGTGGGG 223  
DB 18 GCGGCGGTGGGTGGGG 1

## RESULT 112

US-08-682-255A-43/c  
Sequence 43, Application US/08682255A  
Patent No. 6323185

## GENERAL INFORMATION:

APPLICANT: Rando, Robert F.  
APPLICANT: Fennelwald, Susan  
APPLICANT: Zendequi, Joseph G.  
APPLICANT: Ojwang, Joshua O.  
APPLICANT: Hogan, Michael E.  
APPLICANT: Pommier, Eyles  
APPLICANT: Mazumder, Abhijit  
TITLE OF INVENTION: Anti-Viral Guanosine-Rich  
TITLE OF INVENTION: Oligonucleotides  
NUMBER OF SEQUENCES: 87  
CORRESPONDENCE ADDRESS:

ADDRESSEE: Conley, Rose & Tayon, P.C.  
STREET: 600 Travis, Suite 1850  
CITY: Houston  
STATE: Texas  
COUNTRY: U.S.A.  
ZIP: 77002-2912

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: MS Windows 95  
SOFTWARE: MS Word 97 (saved as .txt file)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/682,255A  
FILING DATE: 17-JULY-1996  
CLASSIFICATION: 435

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/535,168  
FILING DATE: 23-OCT-95  
APPLICATION NUMBER: 60/001,505  
FILING DATE: 19-JULY-95  
APPLICATION NUMBER: 60/014,007  
FILING DATE: 25-MARCH-96  
APPLICATION NUMBER: 60/013,688  
FILING DATE: 19-MARCH-96  
APPLICATION NUMBER: 60/015,714  
FILING DATE: 17-APRIL-96  
APPLICATION NUMBER: 60/016,271  
FILING DATE: 23-APRIL-96  
ATTORNEY/AGENT INFORMATION:  
NAME: McDaniel, C. Steven  
REGISTRATION NUMBER: 33,962  
REFERENCE/DOCKET NUMBER: 1472-06214  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 713/238-8010  
TELEFAX: 713/238-8008

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; INFORMATION FOR SEQ ID NO: 43:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 18 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
;   MOLECULE TYPE: DNA (genomic)
;   FEATURE:
;     NAME/KEY: misc_feature
;     LOCATION: 18
;     OTHER INFORMATION: /note= "Amine moiety
;     OTHER INFORMATION: attached to 3' end and phosphorothioate
;     OTHER INFORMATION: backbone"
;
US-08-682-255A-43
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Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 97;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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QY      206 GGGGGGGTGGGGTGGGGG 223
Db      18 GGGGGGGGGGGGGGGGGG 1
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```
RESULT 113
US-08-987-574-42/c
; Sequence 42, Application US/08987574
; Patent No. 6150339
; GENERAL INFORMATION:
;   APPLICANT: Rando, Robert F.
;   APPLICANT: Fennewald, Susan
;   APPLICANT: Zendequi, Joseph G.
;   APPLICANT: Ojwang, Joshua O.
;   APPLICANT: Hogan, Michael E.
;   TITLE OF INVENTION: Anti-Viral Guanosine-Rich
;   TITLE OF INVENTION: Oligonucleotides
;   NUMBER OF SEQUENCES: 52
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE: Fulbright & Jaworski
;     STREET: 1301 McKinney, Suite 5100
;     CITY: Houston
;     STATE: Texas
;     COUNTRY: U.S.A.
;     ZIP: 77010-3095
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE: Floppy disk
;     COMPUTER: IBM PC compatible
;     OPERATING SYSTEM: PC-DOS/MS-DOS
;     SOFTWARE: Patent In Release #1.0, Version #1.25
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER: US/08/987,574
;     FILING DATE:
;     CLASSIFICATION: 514
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER: PCT/US94/04529
;       FILING DATE: 28-OCT-1993
;       APPLICATION NUMBER: US 08/053,027
;       FILING DATE: 23-APR-1993
;     ATTORNEY/AGENT INFORMATION:
;       NAME: Paul, Thomas D.
;       REGISTRATION NUMBER: 32,714
;       REFERENCE/DOCKET NUMBER: D-5574-CIP
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE: 713/651-5151
;       TELEFAX: 713/651-5246
;       TELEX: 762829
;   INFORMATION FOR SEQ ID NO: 42:
;   SEQUENCE CHARACTERISTICS:
;     LENGTH: 18 base pairs
;     TYPE: nucleic acid
;     STRANDEDNESS: single
;     TOPOLOGY: linear
;     MOLECULE TYPE: DNA (genomic)
```

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;
;   FEATURE:
;     NAME/KEY: misc_feature
;     LOCATION: 18
;     OTHER INFORMATION: /note= "Amine moiety
;     OTHER INFORMATION: attached to 3' end"
;
US-08-987-574-42

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 97;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      206 GGGGGGGTGGGGTGGGGG 223
Db      18 GGGGGGGGGGGGGGGGGG 1

RESULT 114
US-08-987-574-43/c
; Sequence 43, Application US/08987574
; Patent No. 6150339
; GENERAL INFORMATION:
;   APPLICANT: Rando, Robert F.
;   APPLICANT: Fennewald, Susan
;   APPLICANT: Zendequi, Joseph G.
;   APPLICANT: Ojwang, Joshua O.
;   APPLICANT: Hogan, Michael E.
;   TITLE OF INVENTION: Anti-Viral Guanosine-Rich
;   TITLE OF INVENTION: Oligonucleotides
;   NUMBER OF SEQUENCES: 52
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE: Fulbright & Jaworski
;     STREET: 1301 McKinney, Suite 5100
;     CITY: Houston
;     STATE: Texas
;     COUNTRY: U.S.A.
;     ZIP: 77010-3095
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE: Floppy disk
;     COMPUTER: IBM PC compatible
;     OPERATING SYSTEM: PC-DOS/MS-DOS
;     SOFTWARE: Patent In Release #1.0, Version #1.25
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER: US/08/987,574
;     FILING DATE:
;     CLASSIFICATION: 514
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER: PCT/US94/04529
;       FILING DATE: 28-OCT-1993
;       APPLICATION NUMBER: US 08/053,027
;       FILING DATE: 23-APR-1993
;     ATTORNEY/AGENT INFORMATION:
;       NAME: Paul, Thomas D.
;       REGISTRATION NUMBER: 32,714
;       REFERENCE/DOCKET NUMBER: D-5574-CIP
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE: 713/651-5151
;       TELEFAX: 713/651-5246
;       TELEX: 762829
;   INFORMATION FOR SEQ ID NO: 43:
;   SEQUENCE CHARACTERISTICS:
;     LENGTH: 18 base pairs
;     TYPE: nucleic acid
;     STRANDEDNESS: single
;     TOPOLOGY: linear
;     MOLECULE TYPE: DNA (genomic)
;     FEATURE:
;       NAME/KEY: misc_feature
;       LOCATION: 18
;       OTHER INFORMATION: /note= "Amine moiety
;       OTHER INFORMATION: attached to 3' end and phosphorothioate
;       OTHER INFORMATION: backbone"
;
US-08-987-574-43
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; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: MS Word 97 (saved as .txt file)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/017,974
; FILING DATE:
;
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/037,374
; FILING DATE: 04-FEB-97
; APPLICATION NUMBER:
; FILING DATE: 09-DEC-97
; ATTORNEY/AGENT INFORMATION:
; NAME: McDaniel, C. Steven
; REGISTRATION NUMBER: 33,962
; REFERENCE/DOCKET NUMBER: 1472-06223
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/238-8010
; TELEFAX: 713/238-8008
; INFORMATION FOR SEQ ID NO: 42:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 18
; OTHER INFORMATION: /note= "Amine moiety
; OTHER INFORMATION: attached to 3' end"
;
; US-09-017-974-42
;
; Query Match 0.5%; Score 14.8; DB 1; Length 18;
; Best Local Similarity 88.9%; Pred. No. 97;
; Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
;
; QY 206 GGGGGGGTGGGGTGGGGG 223
; Db 18 GGGGGGGGGGGGGGGGGG 1
;
; RESULT 118
; US-09-017-974-43/c
; Sequence 43, Application US/09017974
; Patent No. 6288042
; GENERAL INFORMATION:
; APPLICANT: Rando, Robert F.
; APPLICANT: Ojwang, Joshua O.
; APPLICANT: Hogan, Michael E.
; APPLICANT: Wallace, Thomas L.
; APPLICANT: Cossum, Paul A.
; TITLE OF INVENTION: Anti-Viral Guanosine-Rich
; TITLE OF INVENTION: Tetrad Forming Oligonucleotides
; NUMBER OF SEQUENCES: 88
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Conley, Rose & Tayon, P.C.
; STREET: 600 Travis, Suite 1800
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77002-2912
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: MS Word 97 (saved as .txt file)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/017,974
; FILING DATE:
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; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/037,374
; FILING DATE: 04-FEB-97
; APPLICATION NUMBER:
; FILING DATE: 09-DEC-97
; ATTORNEY/AGENT INFORMATION:
; NAME: McDaniel, C. Steven
; REGISTRATION NUMBER: 33,962
; REFERENCE/DOCKET NUMBER: 1472-06223
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/238-8010
; TELEFAX: 713/238-8008
; INFORMATION FOR SEQ ID NO: 43:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 18
; OTHER INFORMATION: /note= "Amine moiety
; OTHER INFORMATION: attached to 3' end and phosphorothioate
; OTHER INFORMATION: backbone"
;
; US-09-017-974-43
;
; Query Match 0.5%; Score 14.8; DB 1; Length 18;
; Best Local Similarity 88.9%; Pred. No. 97;
; Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
;
; QY 206 GGGGGGGTGGGGTGGGGG 223
; Db 18 GGGGGGGGGGGGGGGGGG 1
;
; RESULT 119
; US-09-097-791D-4/c
; Sequence 4, Application US/09097791D
; Patent No. 6872521
; GENERAL INFORMATION:
; APPLICANT: Boyce-Jacino, Michael
; TITLE OF INVENTION: Polymerase Signaling Assay
; FILE REFERENCE: 13065
; CURRENT APPLICATION NUMBER: US/09/097,791D
; CURRENT FILING DATE: 1998-06-16
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Capture Region
;
; US-09-097-791D-4
;
; Query Match 0.5%; Score 14.8; DB 1; Length 18;
; Best Local Similarity 88.9%; Pred. No. 97;
; Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
;
; QY 206 GGGGGGGTGGGGTGGGGG 223
; Db 18 GGGGGGGGGGGGGGGGGG 1
;
; RESULT 120
; US-09-099-041A-35
; Sequence 35, Application US/09099041A
; Patent No. 6340576
; GENERAL INFORMATION:
; APPLICANT: Bertin, John
; TITLE OF INVENTION: NOVEL MOLECULES OF THE CARD-RELATED
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RESULT 122

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; SEQ ID NO 35
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-207-3598-35

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 97;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2731 CCTGGGACCTGCCCTCC 2748
Db 1 CCTGGTACTTGGCCCTCC 18

RESULT 125
US-09-245-281-35
; Sequence 35, Application US/09245281
; Patent No. 6369196
; GENERAL INFORMATION:
; APPLICANT: Bertin, John
; TITLE OF INVENTION: NOVEL MOLECULES OF THE CARD-RELATED PROTEIN FAMILY
; FILE REFERENCE: 07334/118001
; CURRENT APPLICATION NUMBER: US/09/245,281
; CURRENT FILING DATE: 1999-02-05
; EARLIER APPLICATION NUMBER: US 09/207,359
; EARLIER FILING DATE: 1998-12-08
; EARLIER APPLICATION NUMBER: US 09/099,041
; EARLIER FILING DATE: 1998-06-17
; EARLIER APPLICATION NUMBER: US 09/019,942
; EARLIER FILING DATE: 1998-02-06
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-245-281-35

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 97;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2731 CCTGGGACCTGCCCTCC 2748
Db 1 CCTGGTACTTGGCCCTCC 18

RESULT 126
US-09-340-620A-35
; Sequence 35, Application US/09340620A
; Patent No. 6482933
; GENERAL INFORMATION:
; APPLICANT: Bertin, John
; TITLE OF INVENTION: NOVEL MOLECULES OF THE CARD-RELATED PROTEIN FAMILY AND USES THERE
; FILE REFERENCE: 07334-124001
; CURRENT APPLICATION NUMBER: US/09/340,620A
; CURRENT FILING DATE: 1999-06-28
; PRIOR APPLICATION NUMBER: US 09/245,281
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: US 09/207,359
; PRIOR FILING DATE: 1998-12-08
; PRIOR APPLICATION NUMBER: US 09/099,041
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: US 09/019,942
; PRIOR FILING DATE: 1998-02-06
; NUMBER OF SEQ ID NOS: 71
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Homo sapiens
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US-09-340-620A-35

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 97;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2731 CCTGGGACCTGCCCTCC 2748
Db 1 CCTGGTACTTGGCCCTCC 18

RESULT 127
US-09-387-341-35
; Sequence 35, Application US/09387341
; Patent No. 6410323
; GENERAL INFORMATION:
; APPLICANT: Roberts, M. Luisa
; APPLICANT: Cowert, Lex M.
; TITLE OF INVENTION: Antisense Modulation of Human Rho Family Gene
; TITLE OF INVENTION: Expression
; FILE REFERENCE: ISPH-0404
; CURRENT APPLICATION NUMBER: US/09/387,341
; CURRENT FILING DATE: 1999-08-31
; EARLIER APPLICATION NUMBER: 09/156,424
; EARLIER FILING DATE: 1998-09-18
; EARLIER APPLICATION NUMBER: 09/156,979
; EARLIER FILING DATE: 1998-09-18
; EARLIER APPLICATION NUMBER: 09/156,807
; EARLIER FILING DATE: 1998-09-18
; EARLIER APPLICATION NUMBER: 09/161,015
; EARLIER FILING DATE: 1998-09-25
; NUMBER OF SEQ ID NOS: 233
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 35
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-387-341-35

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 97;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 175 CAAAAGCCCACTCTTCC 192
Db 1 CACAAAGCCCACTTACC 18

RESULT 128
US-09-429-130-42/c
; Sequence 42, Application US/09429130
; Patent No. 6355785
; GENERAL INFORMATION:
; APPLICANT: Rando, Robert F.
; APPLICANT: Fennewald, Susan
; APPLICANT: Zendequi, Joseph G.
; APPLICANT: Ojwang, Joshua O.
; APPLICANT: Hogan, Michael E.
; APPLICANT: Pommier, Eyles
; APPLICANT: Mazumder, Abhijit
; APPLICANT: 60/015,714
; TITLE OF INVENTION: Anti-Viral Guanosine-Rich
; TITLE OF INVENTION: Oligonucleotides
; NUMBER OF SEQUENCES: 87
; CORRESPONDENCE ADDRESS:
; ADDRESS: Conley, Rose & Tayon, P.C.
; STREET: 600 Travis, Suite 1850
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77002-2912
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COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: MS Windows 95  
SOFTWARE: MS Word 97 (saved as .txt file)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/429,130  
FILING DATE: 28-Oct-1999  
CLASSIFICATION: <Unknown>  
19-JULY-95  
25-MARCH-96  
17-APRIL-96  
23-APRIL-96

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/682,255  
FILING DATE: <Unknown>  
APPLICATION NUMBER: 60/001,505  
FILING DATE: 19-JULY-95  
APPLICATION NUMBER: 60/014,007  
FILING DATE: 25-MARCH-96  
APPLICATION NUMBER: 60/013,688  
FILING DATE: 19-MARCH-96  
APPLICATION NUMBER: 60/016,271  
FILING DATE: 17-APRIL-96

ATTORNEY/AGENT INFORMATION:  
NAME: McDaniel, C. Steven  
REGISTRATION NUMBER: 33,962  
REFERENCE/DOCKET NUMBER: 1472-06214  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 713/238-8010  
TELEFAX: 713/238-8008

INFORMATION FOR SEQ ID NO: 42:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: 18  
OTHER INFORMATION: /note= "Amine moiety  
attached to 3' end"

SEQUENCE DESCRIPTION: SEQ ID NO: 42:  
US-09-429-130-42

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 97;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 206 GGGGGGGTGGGTGGGG 223  
Db 18 GGGGGGGGGGGGGGGG 1

RESULT 129  
US-09-429-130-43/c  
Sequence 43, Application US/09429130  
Patent No. 6355785  
GENERAL INFORMATION:  
APPLICANT: Rando, Robert F.  
Fennewald, Susan  
Zendequi, Joseph G.  
OJwang, Joshua O.  
Hogan, Michael E.  
Pommier, Yves  
Mazumder, Abhijit  
60/015,714

TITLE OF INVENTION: Anti-Viral Guanosine-Rich  
OLIGONUCLEOTIDES  
NUMBER OF SEQUENCES: 87  
CORRESPONDENCE ADDRESS:

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: MS Windows 95  
SOFTWARE: MS Word 97 (saved as .txt file)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/429,130  
FILING DATE: 28-Oct-1999  
CLASSIFICATION: <Unknown>  
19-JULY-95  
25-MARCH-96  
17-APRIL-96  
23-APRIL-96

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/682,255  
FILING DATE: <Unknown>  
APPLICATION NUMBER: 60/001,505  
FILING DATE: 19-JULY-95  
APPLICATION NUMBER: 60/014,007  
FILING DATE: 25-MARCH-96  
APPLICATION NUMBER: 60/013,688  
FILING DATE: 19-MARCH-96  
APPLICATION NUMBER: 60/016,271  
FILING DATE: 17-APRIL-96

ATTORNEY/AGENT INFORMATION:  
NAME: McDaniel, C. Steven  
REGISTRATION NUMBER: 33,962  
REFERENCE/DOCKET NUMBER: 1472-06214  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 713/238-8010  
TELEFAX: 713/238-8008

INFORMATION FOR SEQ ID NO: 42:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: 18  
OTHER INFORMATION: /note= "Amine moiety  
attached to 3' end"

SEQUENCE DESCRIPTION: SEQ ID NO: 42:  
US-09-429-130-42

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 97;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: MS Windows 95  
SOFTWARE: MS Word 97 (saved as .txt file)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/429,130  
FILING DATE: 28-Oct-1999  
CLASSIFICATION: <Unknown>  
19-JULY-95  
25-MARCH-96  
17-APRIL-96  
23-APRIL-96

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/682,255  
FILING DATE: <Unknown>  
APPLICATION NUMBER: 60/001,505  
FILING DATE: 19-JULY-95  
APPLICATION NUMBER: 60/014,007  
FILING DATE: 25-MARCH-96  
APPLICATION NUMBER: 60/013,688  
FILING DATE: 19-MARCH-96  
APPLICATION NUMBER: 60/016,271  
FILING DATE: 17-APRIL-96

ATTORNEY/AGENT INFORMATION:  
NAME: McDaniel, C. Steven  
REGISTRATION NUMBER: 33,962  
REFERENCE/DOCKET NUMBER: 1472-06214  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 713/238-8010  
TELEFAX: 713/238-8008

INFORMATION FOR SEQ ID NO: 43:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: 18  
OTHER INFORMATION: /note= "Amine moiety  
attached to 3' end and phosphorothioate  
backbone"

SEQUENCE DESCRIPTION: SEQ ID NO: 43:  
US-09-429-130-43

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 97;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 206 GGGGGGGTGGGTGGGG 223  
Db 18 GGGGGGGGGGGGGGGG 1

RESULT 130  
US-09-437-076-3  
Sequence 3, Application US/09437076  
Patent No. 6261779  
GENERAL INFORMATION:  
APPLICANT: Barber-Guillem, Emilio  
APPLICANT: Nelson, M. Bud  
APPLICANT: Castro, Stephanie  
TITLE OF INVENTION: Nanocrystals having polynucleotide strands and their use to form  
CURRENT APPLICATION NUMBER: US/09/437,076



US-09-766-095-110

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 55.6%; Pred. No. 97;  
Matches 10; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

Qy 1575 TGTGCTCATCTTGGCCAC 1592  
Db 1 UGUGCCCUUUGCCAC 18

RESULT 134

US-09-766-095-30  
; Sequence 30, Application US/09766095  
; Patent No. 6649749

; GENERAL INFORMATION:

; APPLICANT: Sherrol H. McDonough, Thomas B. Ryder,  
; Yeasing Yang

; TITLE OF INVENTION: NUCLEIC ACID AMPLIFICATION

; OLIGONUCLEOTIDES AND PROBES

; TO HUMAN IMMUNODEFICIENCY VIRUS TYPE 1

; NUMBER OF SEQUENCES: 139

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Lyon &amp; Lyon

; STREET: 611 West Sixth Street

; CITY: Los Angeles

; STATE: California

; COUNTRY: USA

; ZIP: 90017

; COMPUTER READABLE FORM:

; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage

; COMPUTER: IBM PS/2 Model 502 or 55SX

; OPERATING SYSTEM: IBM P.C. DOS (Version 3.30)

; SOFTWARE: WordPerfect (Version 5.0)

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/766,095

; FILING DATE: 18-Jan-2001

; CLASSIFICATION: &lt;Unknown&gt;

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 09/013,406

; FILING DATE: 26-JAN-01

; APPLICATION NUMBER: U.S. Serial No. 6649749 07/550,837

; FILING DATE: 10-Jul-90

; APPLICATION NUMBER: U.S. Serial No. 6649749 07/379,501

; FILING DATE: 11-Jul-89

; ATTORNEY/AGENT INFORMATION:

; NAME: Warburg, Richard J.

; REGISTRATION NUMBER: 32,327

; REFERENCE/DOCKET NUMBER: 196/189

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (213) 489-1600

; TELEFAX: (213) 955-0440

; TELEX: 67-3510

; INFORMATION FOR SEQ ID NO: 30:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 18

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; SEQUENCE DESCRIPTION: SEQ ID NO: 30:

US-09-766-095-30

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 97;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1575 TGTGCTCATCTTGGCCAC 1592  
Db 1 TGTGCCCTCTTGGCCAC 18

RESULT 135

US-09-865-364-35

; Sequence 35, Application US/09865364

; Patent No. 6613521

; GENERAL INFORMATION:

; APPLICANT: Bertin, John

; TITLE OF INVENTION: NOVEL MOLECULES OF THE CARD-RELATED

; FILE REFERENCE: 07334-112001.

; CURRENT APPLICATION NUMBER: US/09/865,364

; CURRENT FILING DATE: 2001-05-25

; PRIOR APPLICATION NUMBER: US/09/207,359

; PRIOR FILING DATE: 1998-12-08

; PRIOR APPLICATION NUMBER: US/09/099,041

; PRIOR FILING DATE: 1998-06-17

; PRIOR APPLICATION NUMBER: US/09/019,942

; PRIOR FILING DATE: 1998-02-06

; NUMBER OF SEQ ID NOS: 47

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 35

; LENGTH: 18

; TYPE: DNA

; ORGANISM: Homo sapiens

; US-09-865-364-35

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 97;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2731 CCTGGACCTGCCCTCC 2748  
Db 1 CCTGGTACTTGCCCTCC 18

RESULT 136

US-09-904-744-3

; Sequence 3, Application US/09904744

; Patent No. 6828142

; GENERAL INFORMATION:

; APPLICANT: Barbera-Guillem, Emilio

; APPLICANT: Nelson, M. Bud

; APPLICANT: Castro, Stephanie

; TITLE OF INVENTION: Nanocrystals having polynucleotide strands and their use to form

; FILE REFERENCE: B-73

; CURRENT APPLICATION NUMBER: US/09/904,744

; CURRENT FILING DATE: 2001-07-13

; PRIOR APPLICATION NUMBER: 09/437076

; PRIOR FILING DATE: 1999-11-09

; PRIOR APPLICATION NUMBER: 60/107828

; PRIOR FILING DATE: 1998-11-10

; NUMBER OF SEQ ID NOS: 6

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 3

; LENGTH: 18

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: synthesized

; US-09-904-744-3

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 97;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 206 GGGGGGGTGGGGTGGGG 223  
Db 1 GGGGGGGGGGGGGGGG 18

RESULT 137

US-10-352-704-24/c

; Sequence 24, Application US/10352704

; Patent No. 6825339

; GENERAL INFORMATION:

APPLICANT: Chatelain, Francois  
Kumarev, Viktor  
TITLE OF INVENTION: Process for Preparing Polynucleotides on  
a Solid Support and Apparatus Permitting its  
Implementation

NUMBER OF SEQUENCES: 31

CORRESPONDENCE ADDRESS:

ADDRESSER: Jacobson, Price, Holman & Stern

STREET: 400 Seventh St. N.W.

CITY: Washington D.C

STATE: D.C

COUNTRY: U.S.A.

ZIP: 20004

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/352,704

FILING DATE: 28-Jan-2003

CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/358,556A

FILING DATE: 14-DEC-1994

APPLICATION NUMBER: FR 9315164

FILING DATE: 16-DEC-1993

ATTORNEY/AGENT INFORMATION:

NAME: Player, William E.

REGISTRATION NUMBER: 31,409

REFERENCE/DOCKET NUMBER: 10577/P58418

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202)638-6666

TELEFAX: (202) 393-5350

TELEX: RCA 248593 IDEA UR

INFORMATION FOR SEQ ID NO: 24:

SEQUENCE CHARACTERISTICS:

LENGTH: 18 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

HYPOTHETICAL: NO

ANTI-SENSE: NO

FRAGMENT TYPE: N-terminal

FEATURE:

NAME/KEY: CDS

LOCATION: 1..18

SEQUENCE DESCRIPTION: SEQ ID NO: 24:

US-10-352-704-24

Query Match 0.5%; Score 14.8; DB 1; Length 18;

Best Local Similarity 88.9%; Pred. No. 97;

Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGG 223

DB 18 GGGGGGGGGGGGGGGG 1

RESULT 138

US-08-993-008A-1

Sequence 1, Application US/08993008A

Patent No. 6153596

GENERAL INFORMATION:

APPLICANT: Liotta, Dennis C.

APPLICANT: Petros, John A.

APPLICANT: Wey, Shio-Jyi

APPLICANT: Karr, Joan F.

APPLICANT: Pohl, Jan

TITLE OF INVENTION: Polycationic Oligomers

NUMBER OF SEQUENCES: 6

CORRESPONDENCE ADDRESS:

ADDRESSEE: Greenlee, Winner and Sullivan  
STREET: 5370 Manhattan Circle, Suite 201  
CITY: Boulder  
STATE: CO  
COUNTRY: US  
ZIP: 80303  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/993,008A  
FILING DATE: 18-DEC-1997  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/032,436  
FILING DATE: 18-DEC-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Sullivan, Sally A.  
REGISTRATION NUMBER: 32,064  
REFERENCE/DOCKET NUMBER: 33-95  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 303-499-8080  
TELEFAX: 303-499-8089  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 28 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: other nucleic acid  
DESCRIPTION: /desc = "Oligonucleotide"  
HYPOTHETICAL: NO  
US-08-993-008A-1

Query Match 0.5%; Score 14.8; DB 1; Length 28;

Best Local Similarity 73.1%; Pred. No. 1.9e+02;

Matches 19; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 474 GAAGGAGGAGATGCCAAGGCGGAGG 499

DB 2 GGAGGAGGAGGTGGAGGAGGAGG 27

RESULT 139

US-08-634-331-7

Sequence 7, Application US/08634331

Patent No. 5707809

GENERAL INFORMATION:

APPLICANT: HALVERSON, Joy L.

APPLICANT: DVORAK, Jan

TITLE OF INVENTION: AVIAN SEX IDENTIFICATION PROBES

NUMBER OF SEQUENCES: 16

CORRESPONDENCE ADDRESS:

ADDRESSEE: FLEHR, HOHBACH, TEST, ALBRITTON & HERBERT

STREET: 4 Embarcadero Center, Suite 3400

CITY: San Francisco

STATE: California

COUNTRY: USA

ZIP: 94111-4187

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/634,331

FILING DATE:

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: SHERWOOD, Pamela J.

REGISTRATION NUMBER: 36,677



REFERENCE/DOCKET NUMBER: A-55362-3/BIR/PJS  
TELEPHONE: (415) 494-8700  
TELEFAX: (415) 494-8771  
TELEX: 910 2777299PHT UR  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 16 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: other nucleic acid  
DESCRIPTION: /desc = "Primer"  
US-08-634-331-7

Query Match 0.5%; Score 14.4; DB 1; Length 16;  
Best Local Similarity 93.8%; Pred. No. 86;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2362 GAAAGACAGACAGACA 2377  
DB 1 GACAGACAGACAGACA 16

RESULT 140  
US-08-981-462-67  
Sequence 67, Application US/08981462  
Patent No. 6054275  
GENERAL INFORMATION:  
APPLICANT: Morgan, Una  
APPLICANT: Thompson, Richard C.A.  
TITLE OF INVENTION: NOVEL DETECTION METHODS FOR  
TITLE OF INVENTION: CRYPTOSPORIDIUM  
NUMBER OF SEQUENCES: 68  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun  
STREET: 233 South Wacker Drive/6300 Sears Tower  
CITY: Chicago  
STATE: Illinois  
COUNTRY: United States of America  
ZIP: 60606-6402  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/981,462  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/AU96/00387  
FILING DATE: 25-JUN-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Cawley, Jr., Thomas A.  
REGISTRATION NUMBER: 40,944  
REFERENCE/DOCKET NUMBER: 28594/34423  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (312) 474-6300  
TELEFAX: (312) 474-0448  
INFORMATION FOR SEQ ID NO: 67:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 16 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: CDNA  
US-08-981-462-67

Query Match 0.5%; Score 14.4; DB 1; Length 16;  
Best Local Similarity 93.8%; Pred. No. 86;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2362 GAAAGACAGACAGACA 2377  
DB 1 GACAGACAGACAGACA 16

RESULT 141  
US-08-173-489C-95/c  
Sequence 95, Application US/08173489C  
Patent No. 5861244  
GENERAL INFORMATION:  
APPLICANT: WANG, C. -G.  
APPLICANT: HEPBURN, A. G.  
TITLE OF INVENTION: GENETIC SEQUENCE ASSAY USING DNA  
TITLE OF INVENTION: TRIPLE-STRAND FORMATION.  
NUMBER OF SEQUENCES: 365  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: PROFILE DIAGNOSTIC SCIENCES, INC.,  
STREET: 510 EAST 73RD STREET,  
CITY: NEW YORK  
STATE: NEW YORK  
COUNTRY: USA  
ZIP: 10021.  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 inch, 1.44Mb storage  
COMPUTER: IBM PC/XT/AT  
OPERATING SYSTEM: MS-DOS version 6.2  
SOFTWARE: Wordperfect Version 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/173,489C  
FILING DATE: 22 DEC 1993  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/968,436  
FILING DATE: 29 OCT 1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Handelman, Joseph H.  
REGISTRATION NUMBER: 26,179  
REFERENCE/DOCKET NUMBER: U9518-6  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (attorney) (212) 708-1880  
TELEFAX: (attorney) (212) 246-8959  
INFORMATION FOR SEQ ID NO: 95:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 17 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double stranded  
TOPOLOGY: linear  
MOLECULE TYPE: genomic DNA  
DESCRIPTION: superoxide dismutase gene (accession #  
DESCRIPTION: J02947) nucleotides 1212 to 1228  
HYPOTHETICAL: no  
ANTI-SENSE: no  
ORIGINAL SOURCE:  
ORGANISM: Homo sapiens  
POSITION IN GENOME:  
CHROMOSOME/SEGMENT: chromosome 21  
MAP POSITION: 21q22.1  
PUBLICATION INFORMATION:  
AUTHORS: Hjalmarsson, K, Marklund, S L,  
AUTHORS: Engstrom, A, Edlund, T.  
TITLE: Isolation and sequence of  
TITLE: complementary dna encoding human extracellular-  
TITLE: superoxide dismutase  
JOURNAL: Proceedings of the National Academy of  
JOURNAL: Sciences, USA  
VOLUME: 84  
PAGES: 6340-6344  
DATE: 1987  
RELEVANT RESIDUES IN SEQ ID NO: 95 :FROM 1 TO 17  
US-08-173-489C-95

Query Match 0.5%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 97;

```
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 209 GGGTGGGTGGGGG 224
Db 17 GGGGAGGGTGGGGG 2

RESULT 142
US-08-390-850-486/c
; Sequence 486, Application US/08390850
; Patent No. 5612215
; GENERAL INFORMATION:
; APPLICANT: Draper, Kenneth G.
; APPLICANT: Pavco, Pamela
; APPLICANT: McSwiggen, James
; APPLICANT: Gustofson, John
; APPLICANT: Stinchcomb, Dan T.
; TITLE OF INVENTION: METHOD AND REAGENT FOR TREATMENT
; TITLE OF INVENTION: OF ARTHRITIC CONDITIONS
; NUMBER OF SEQUENCES: 1151
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/390,850
; FILING DATE: February 17, 1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/354,920
; FILING DATE: December 13, 1994
; APPLICATION NUMBER: 08/152,487
; FILING DATE: No. 5612215ember 12, 1993
; APPLICATION NUMBER: 07/989,848
; FILING DATE: December 7, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 211/084
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 486:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-390-850-486

Query Match 0.5%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 97;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 513 CATCATCAACGTGGGC 528
Db 17 CATCATCAAGTGGGC 2

RESULT 143
US-08-390-850-562/c
; Sequence 562, Application US/08390850
; Patent No. 5612215
; GENERAL INFORMATION:
; APPLICANT: Draper, Kenneth G.
; APPLICANT: Pavco, Pamela
; APPLICANT: McSwiggen, James
; APPLICANT: Gustofson, John
; APPLICANT: Stinchcomb, Dan T.
; TITLE OF INVENTION: METHOD AND REAGENT FOR TREATMENT
; TITLE OF INVENTION: OF ARTHRITIC CONDITIONS
; NUMBER OF SEQUENCES: 1151
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon

QY 475 AAGGAGGAGATGCCA 490
Db 17 AAGGAGAGATGCCA 2

RESULT 144
US-08-390-850-564/c
; Sequence 564, Application US/08390850
; Patent No. 5612215
; GENERAL INFORMATION:
; APPLICANT: Draper, Kenneth G.
; APPLICANT: Pavco, Pamela
; APPLICANT: McSwiggen, James
; APPLICANT: Gustofson, John
; APPLICANT: Stinchcomb, Dan T.
; TITLE OF INVENTION: METHOD AND REAGENT FOR TREATMENT
; TITLE OF INVENTION: OF ARTHRITIC CONDITIONS
; NUMBER OF SEQUENCES: 1151
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
```

STREET: 633 West Fifth Street  
CITY: Suite 4700  
STATE: Los Angeles  
COUNTRY: California  
ZIP: U.S.A.  
90071  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: FastSEQ Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/390,850  
FILING DATE: February 17, 1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/354,920  
FILING DATE: December 13, 1994  
APPLICATION NUMBER: 08/152,487  
FILING DATE: No. 5612215ember 12, 1993  
APPLICATION NUMBER: 07/989,848  
FILING DATE: December 7, 1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 211/084  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 564:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 17 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-390-850-564

Query Match 0.5%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 97;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 472 CTGAAGGAGGAGATGC 487  
DB 16 CTGAAGGAGGAGATGC 1

RESULT 145  
US-08-435-634-486/c  
Sequence 486, Application US/08435634  
Patent No. 5731295  
GENERAL INFORMATION:  
APPLICANT: Draper, Kenneth G.  
APPLICANT: Pavco, Pamela  
APPLICANT: McSwiggen, James  
APPLICANT: Gustofson, John  
APPLICANT: Stinchcomb, Dan T.  
TITLE OF INVENTION: METHOD AND REAGENT FOR TREATMENT  
OF ARTHRITIC CONDITIONS  
NUMBER OF SEQUENCES: 1151  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
CITY: Suite 4700  
STATE: Los Angeles  
COUNTRY: California  
ZIP: U.S.A.  
90071  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0

SOFTWARE: FastSEQ Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/435,634  
FILING DATE: 05-MAY-1995  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/390,850  
FILING DATE: February 17, 1995  
APPLICATION NUMBER: 08/354,920  
FILING DATE: December 13, 1994  
APPLICATION NUMBER: 08/152,487  
FILING DATE: No. 5731295ember 12, 1993  
APPLICATION NUMBER: 07/989,848  
FILING DATE: December 7, 1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 211/084  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 486:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 17 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-435-634-486

Query Match 0.5%; Score 14.4; DB 1; Length 17;  
Best Local Similarity 93.8%; Pred. No. 97;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 513 CATCATCAACGTGGGC 528  
DB 17 CATCATCAAGTGGGC 2

RESULT 146  
US-08-435-634-562/c  
Sequence 562, Application US/08435634  
Patent No. 5731295  
GENERAL INFORMATION:  
APPLICANT: Draper, Kenneth G.  
APPLICANT: Pavco, Pamela  
APPLICANT: McSwiggen, James  
APPLICANT: Gustofson, John  
APPLICANT: Stinchcomb, Dan T.  
TITLE OF INVENTION: METHOD AND REAGENT FOR TREATMENT  
OF ARTHRITIC CONDITIONS  
NUMBER OF SEQUENCES: 1151  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
CITY: Suite 4700  
STATE: Los Angeles  
COUNTRY: California  
ZIP: U.S.A.  
90071  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: FastSEQ Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/435,634  
FILING DATE: 05-MAY-1995  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/390,850  
FILING DATE: February 17, 1995

```
; APPLICATION NUMBER: 08/354,920
; FILING DATE: December 13, 1994
; APPLICATION NUMBER: 08/152,487
; FILING DATE: No. 5731295ember 12, 1993
; APPLICATION NUMBER: 07/989,848
; FILING DATE: December 7, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 211/084
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 562:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-435-634-562

Query Match 0.5%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 97;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 475 AAGGAGGAGATGCCA 490
Db 17 AAGGAGGAGATGCCA 2

RESULT 147
US-08-435-634-564/c
; Sequence 564, Application US/08435634
; Patent No. 5731295
; GENERAL INFORMATION:
; APPLICANT: Draper, Kenneth G.
; APPLICANT: Pavco, Pamela
; APPLICANT: McSwiggen, James
; APPLICANT: Gustofson, John
; APPLICANT: Stinchcomb, Dan T.
; TITLE OF INVENTION: METHOD AND REAGENT FOR TREATMENT
; TITLE OF INVENTION: OF ARTHRIIC CONDITIONS
; NUMBER OF SEQUENCES: 1151
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/435,634
; FILING DATE: 05-MAY-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/390,850
; FILING DATE: February 17, 1995
; APPLICATION NUMBER: 08/354,920
; FILING DATE: December 13, 1994
; APPLICATION NUMBER: 08/152,487
; FILING DATE: No. 5731295ember 12, 1993
; APPLICATION NUMBER: 07/989,848
; FILING DATE: December 7, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard

; APPLICATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 211/084
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 564:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-435-634-564

Query Match 0.5%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 97;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 472 CTGAAGGAGGAGATGG 487
Db 16 CTGAAGGAGGAGATGG 1

RESULT 148
US-09-529-812A-3/c
; Sequence 3, Application US/09529812A
; Patent No. 6682930
; GENERAL INFORMATION:
; APPLICANT: LU, CHANGDE
; TITLE OF INVENTION: NEW TRIPLEX FORMING OLIGONUCLEOTIDES AND THEIR USE IN
; TITLE OF INVENTION: ANTI-HBV
; FILE REFERENCE: 017227/0160
; CURRENT APPLICATION NUMBER: US/09/529,812A
; CURRENT FILING DATE: 2000-07-24
; PRIOR APPLICATION NUMBER: PCT/CN98/00248
; PRIOR FILING DATE: 1998-10-19
; PRIOR APPLICATION NUMBER: CN 97106667.1
; PRIOR FILING DATE: 1997-10-21
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 3
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Triplex
; OTHER INFORMATION: forming oligonucleotide
; OTHER INFORMATION: This oligo may or may not be 3'-monophosphorylated
; US-09-529-812A-3

Query Match 0.5%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 97;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 266 CCTCCTGCTCCTCCTCCT 281
Db 17 CCTCCTGCTCCTCCTCCT 2

RESULT 149
US-09-529-812A-4/c
; Sequence 4, Application US/09529812A
; Patent No. 6682930
; GENERAL INFORMATION:
; APPLICANT: LU, CHANGDE
; TITLE OF INVENTION: NEW TRIPLEX FORMING OLIGONUCLEOTIDES AND THEIR USE IN
; TITLE OF INVENTION: ANTI-HBV
; FILE REFERENCE: 017227/0160
; CURRENT APPLICATION NUMBER: US/09/529,812A
; CURRENT FILING DATE: 2000-07-24
; PRIOR APPLICATION NUMBER: PCT/CN98/00248
; PRIOR FILING DATE: 1998-10-19
; PRIOR APPLICATION NUMBER: CN 97106667.1
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; PRIOR FILING DATE: 1997-10-21
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Triplex
; OTHER INFORMATION: forming oligonucleotide
; OTHER INFORMATION: This oligo may or may not be 3'-monophosphorylated
US-09-529-812A-4

Query Match      0.5%; Score 14.4; DB 1; Length 17;
Best Local Similarity 93.8%; Pred. No. 97;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 269 CCTGCCTCTCTCTCT 284
Db 17 CCTCCCTCTCTCTCT 2

RESULT 150
US-08-170-095B-34
; Sequence 34, Application US/08170095B
; Patent No. 5563254
; GENERAL INFORMATION:
; APPLICANT: Hoffman, Stephen J.
; APPLICANT: Nagai, Kiyoshi
; TITLE OF INVENTION: Blood Substitutes
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Somatogen, Inc.
; STREET: 2545 Central Avenue
; CITY: Boulder
; STATE: Colorado
; ZIP: 80301
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 Mb storage
; COMPUTER: Apple Macintosh
; OPERATING SYSTEM: System 7.0.1
; SOFTWARE: Microsoft Word 5.0a
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/170,095B
; FILING DATE: December 20, 1993
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5563254ak, Henry P.
; REGISTRATION NUMBER: 33200
; REFERENCE/DOCKET NUMBER: Hoffman 2A/CONT2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 303-541-3322
; TELEFAX: 303-444-3013
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: unknown to applicant
; MOLECULE TYPE: Other nucleic acid
; DESCRIPTION: primer
; HYPOTHETICAL: no
US-08-170-095B-34

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1225 GTAGAAACAGAACCA 1240
Db 1 GTAGAAACAGAACCA 16

RESULT 152
US-08-480-917-8
; Sequence 8, Application US/08480917
; Patent No. 5820864
; GENERAL INFORMATION:
; APPLICANT: PARANHOS-BACCALA, Glaucia
; APPLICANT: LESENECHAL, Mylene
; APPLICANT: JOLIVET, Michel
; TITLE OF INVENTION: NEW TRYPAOSOMA CRUZI ANTIGEN, AND GENE
; TITLE OF INVENTION: ENCODING THE LATTER; THEIR APPLICATION TO THE DETECTION OF
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Oliff & Berridge
; STREET: 700 South Washington Street, Suite 300
; CITY: Alexandria
; STATE: Virginia
; COUNTRY: U.S.A.
```

```

RESULT 151
US-08-396-866-34
; Sequence 34, Application US/08396866
; Patent No. 5661124
; GENERAL INFORMATION:
; APPLICANT: Hoffman, Stephen J.
; APPLICANT: Nagai, Kiyoshi
; TITLE OF INVENTION: Blood Substitutes
; NUMBER OF SEQUENCES: 34
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Somatogen, Inc.
; STREET: 5797 Central Avenue
; CITY: Boulder
; STATE: Colorado
; ZIP: 80301
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 Mb storage
; COMPUTER: Apple Macintosh
; OPERATING SYSTEM: System 7.0.1
; SOFTWARE: Microsoft Word 5.0a
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/396,866
; FILING DATE:
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/062,780
; FILING DATE: May 17, 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5661124ak, Henry P.
; REGISTRATION NUMBER: 33200
; REFERENCE/DOCKET NUMBER: Hoffman 2A/CONT1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 303-541-3322
; TELEFAX: 303-444-3013
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: unknown to applicant
; MOLECULE TYPE: Other nucleic acid
; DESCRIPTION: primer
; HYPOTHETICAL: no
US-08-396-866-34

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1225 GTAGAAACAGAACCA 1240
Db 1 GTAGAAACAGAACCA 16

RESULT 152
US-08-480-917-8
; Sequence 8, Application US/08480917
; Patent No. 5820864
; GENERAL INFORMATION:
; APPLICANT: PARANHOS-BACCALA, Glaucia
; APPLICANT: LESENECHAL, Mylene
; APPLICANT: JOLIVET, Michel
; TITLE OF INVENTION: NEW TRYPAOSOMA CRUZI ANTIGEN, AND GENE
; TITLE OF INVENTION: ENCODING THE LATTER; THEIR APPLICATION TO THE DETECTION OF
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Oliff & Berridge
; STREET: 700 South Washington Street, Suite 300
; CITY: Alexandria
; STATE: Virginia
; COUNTRY: U.S.A.
```

ZIP: 22314  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/480,917  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Berridge, William P.  
REGISTRATION NUMBER: 30,024  
REFERENCE/DOCKET NUMBER: WPB 36400  
TELEPHONE: 703-836-6400  
TELEFAX: 703-836-2787  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-08-480-917-8

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.1e+02;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAG 659  
Db 2 GCAGCAGCGGCAGAG 17

RESULT 153  
US-08-679-645-1163/c  
Sequence 1163, Application US/08679645  
Patent No. 6350934  
GENERAL INFORMATION:  
APPLICANT: Zwick, Michael G.  
APPLICANT: Edington, Brent E.  
APPLICANT: McSwiggen, James A.  
APPLICANT: Merlo, Patricia Ann Owens  
APPLICANT: Guo, Lining  
APPLICANT: Skokut, Thomas A.  
APPLICANT: Young, Scott A.  
APPLICANT: Folkerts, Otto  
APPLICANT: Merlo, Donald J.  
TITLE OF INVENTION: COMPOSITION AND METHODS FOR  
TITLE OF INVENTION: MODULATION OF GENE EXPRESSION  
NUMBER OF SEQUENCES: 1263  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
CITY: Suite 4700  
STATE: Los Angeles  
CITY: California  
COUNTRY: U.S.A.  
ZIP: 90071-2066  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/679,645  
FILING DATE: July 12, 1996  
CLASSIFICATION: 800  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/001,135

FILING DATE: July 13, 1995  
APPLICATION NUMBER: 08/300,726  
FILING DATE: September 2, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 219/247  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 1163:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-679-645-1163

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.1e+02;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGCGCGCGGCG 674  
Db 18 GCGGCGCGCGCGGCG 3

RESULT 154  
US-08-679-645-623/c  
Sequence 623, Application US/08679645  
Patent No. 6350934  
GENERAL INFORMATION:  
APPLICANT: Zwick, Michael G.  
APPLICANT: Edington, Brent E.  
APPLICANT: McSwiggen, James A.  
APPLICANT: Merlo, Patricia Ann Owens  
APPLICANT: Guo, Lining  
APPLICANT: Skokut, Thomas A.  
APPLICANT: Young, Scott A.  
APPLICANT: Folkerts, Otto  
APPLICANT: Merlo, Donald J.  
TITLE OF INVENTION: COMPOSITION AND METHODS FOR  
TITLE OF INVENTION: MODULATION OF GENE EXPRESSION  
NUMBER OF SEQUENCES: 1263  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
CITY: Suite 4700  
STATE: Los Angeles  
CITY: California  
COUNTRY: U.S.A.  
ZIP: 90071-2066  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/679,645  
FILING DATE: July 12, 1996  
CLASSIFICATION: 800  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/001,135  
FILING DATE: July 13, 1995  
APPLICATION NUMBER: 08/300,726  
FILING DATE: September 2, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 219/247

; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 623:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 18 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-679-645-623

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.1e+02;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 826 CCTGCTGCTGATGA 841  
Db 16 CCTGACGCTGATGA 1

RESULT 155  
US-08-988-242-4  
; Sequence 4, Application US/08988242  
; Patent No. 6403103  
; GENERAL INFORMATION:  
; APPLICANT: PARANHOS-BACCALA, GLAUCIA  
; APPLICANT: LESENECHAL, MYLENE  
; APPLICANT: JOLIVET, MICHEL  
; APPLICANT: MANDRAND, BERNARD  
; TITLE OF INVENTION: NEW TRYPANOSOMA CRUZI ANTIGEN, GENE  
; TITLE OF INVENTION: ENCODING THEREFOR, AND METHODS OF DETECTING AND TREATING  
; TITLE OF INVENTION: CHAGAS DISEASE  
; NUMBER OF SEQUENCES: 19  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: OLIFF & BERRIDGE, PLC  
; STREET: P.O. BOX 19928  
; CITY: Alexandria  
; STATE: Virginia  
; COUNTRY: U.S.A.  
; ZIP: 22320

COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/988,242  
; FILING DATE: 10-DEC-1997  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Berridge, William P.  
; REGISTRATION NUMBER: 30,024  
; REFERENCE/DOCKET NUMBER: WPB 36400A  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 703-836-6400  
; TELEFAX: 703-836-2787  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 18 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
US-08-988-242-4

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.1e+02;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 644 GCAGCGCGGCGAG 659  
Db 2 GCAGCGCGGCGAG 17

RESULT 156  
US-09-138-735-8  
; Sequence 8, Application US/09138735  
; Patent No. 6933110  
; GENERAL INFORMATION:  
; APPLICANT: PARANHOS-BACCALA, GLAUCIA  
; APPLICANT: LESENECHAL, MYLENE  
; APPLICANT: JOLIVET, MICHEL  
; TITLE OF INVENTION: TRYPANOSOMA CRUZI ANTIGEN, GENE ENCODING THEREFOR AND METHODS OF  
; TITLE OF INVENTION: DETECTING AND TREATING CHAGAS DISEASE  
; FILE REFERENCE: WPB 36400B  
; CURRENT APPLICATION NUMBER: US/09/138,735  
; CURRENT FILING DATE: 1998-08-24  
; PRIOR APPLICATION NUMBER: US 08/480,917  
; PRIOR FILING DATE: 1995-06-07  
; PRIOR APPLICATION NUMBER: FR 94/10132  
; PRIOR FILING DATE: 1994-08-12  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 8  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: probe/primer  
US-09-138-735-8

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.1e+02;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 644 GCAGCGCGGCGAG 659  
Db 2 GCAGCGCGGCGAG 17

RESULT 157  
US-09-138-736-8  
; Sequence 8, Application US/09138736  
; Patent No. 6270767  
; GENERAL INFORMATION:  
; APPLICANT: PARANHOS-BACCALA, GLAUCIA  
; APPLICANT: LESENECHAL, MYLENE  
; APPLICANT: JOLIVET, MICHEL  
; TITLE OF INVENTION: NEW TRYPANOSOMA CRUZI ANTIGEN, AND GENE  
; TITLE OF INVENTION: ENCODING THE LATTER; THEIR APPLICATION TO THE DETECTION OF  
; TITLE OF INVENTION: CHAGAS DISEASE  
; NUMBER OF SEQUENCES: 13  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Oliff & Berridge  
; STREET: 700 South Washington Street, Suite 300  
; CITY: Alexandria  
; STATE: Virginia  
; COUNTRY: U.S.A.  
; ZIP: 22314  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/138,736  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/480,917  
; FILING DATE: 07-JUN-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Berridge, William P.  
; REGISTRATION NUMBER: 30,024  
; REFERENCE/DOCKET NUMBER: WPB 36400

```
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-836-6400
; TELEFAX: 703-836-2787
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-09-138-736-8

Query Match 0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAG 659
Db 2 GCAGCAGCGGCAGAG 17

RESULT 158
US-09-336-643A-53/c
; Sequence 53, Application US/09336643A
; Patent No. 6399761
; GENERAL INFORMATION:
; APPLICANT: Miller, Andrew P.
; APPLICANT: Curran, Mark Edward
; APPLICANT: Hu, Ping
; APPLICANT: Rutter, Marc
; APPLICANT: Wang, Jian-Wang
; TITLE OF INVENTION: No. 6399761el Human Potassium Channels
; FILE REFERENCE: SEQ-15P
; CURRENT APPLICATION NUMBER: US/09/336,643A
; CURRENT FILING DATE: 1999-06-18
; PRIOR APPLICATION NUMBER: 60/076,687
; PRIOR FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: 60/116,448
; PRIOR FILING DATE: 1999-01-19
; PRIOR APPLICATION NUMBER: PCT/US99/03826
; PRIOR FILING DATE: 1999-02-22
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 53
; LENGTH: 45
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-09-336-643A-53

Query Match 0.5%; Score 14.4; DB 1; Length 45;
Best Local Similarity 60.0%; Pred. No. 1.7e+02;
Matches 24; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 2631 ATGTCCTCCCAAGTCCTCTGCCACCCCTGTTTCCCGACCCC 2670
Db 44 ATGTCCTCCATAGCCAGCGGTGTCGTATGGTGACCAACAGCCC 5

RESULT 159
US-08-765-340-114/c
; Sequence 114, Application US/08765340
; Patent No. 6150092
; GENERAL INFORMATION:
; APPLICANT: UCHIDA, K.,
; APPLICANT: UCHIDA, T.,
; APPLICANT: TANAKA, Y.,
; APPLICANT: MATSUDA, Y.,
; APPLICANT: KONDO, S.,
; TITLE OF INVENTION: AN ANTISENSE NUCLEIC ACID
; TITLE OF INVENTION: COMPOUND
; NUMBER OF SEQUENCES: 185

; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN, L.L.P.
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version
; SOFTWARE: #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/765,340
; FILING DATE: 23-DEC-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 145146/94
; FILING DATE: 27-JUN-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 311130/94
; FILING DATE: 21-NOV-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: SERUNIAN, LESLIE
; REGISTRATION NUMBER: 35,353
; REFERENCE/DOCKET NUMBER: 1452-4005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; INFORMATION FOR SEQ ID NO: 114:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 14 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "synthetic DNA"
US-08-765-340-114

Query Match 0.5%; Score 14; DB 1; Length 14;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2756 TGGTCCCAGGCTGC 2769
Db 14 TGGTCCCAGGCTGC 1

RESULT 160
US-09-696-791-4412
; Sequence 4412, Application US/09696791
; Patent No. 6770633
; GENERAL INFORMATION:
; APPLICANT: Robbins, Joan M.
; APPLICANT: Tritz, Richard
; TITLE OF INVENTION: RIBOZYME THERAPY FOR THE TREATMENT OF PROLIFERATIVE
; TITLE OF INVENTION: SKIN AND EYE DISEASES
; FILE REFERENCE: 480124.407
; CURRENT APPLICATION NUMBER: US/09/696,791
; CURRENT FILING DATE: 2000-10-25
; NUMBER OF SEQ ID NOS: 4523
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4412
; LENGTH: 16
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; OTHER INFORMATION: VEGF ribozyme recognition site
US-09-696-791-4412

Query Match 0.5%; Score 14; DB 1; Length 16;
Best Local Similarity 100.0%; Pred. No. 97;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```



```

QY 2755 GTGGTCCCAAGGCTG 2768
Db 3 GTGGTCCCAAGGCTG 16

RESULT 161
US-09-866-108A-1224/c
; Sequence 1224, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; SOFTWARE: Aecomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 1224
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-1224

Query Match 0.5%; Score 14; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2496 CCATCTGGGTCTGA 2509
Db 17 CCATCTGGGTCTGA 4

RESULT 162
US-09-866-108A-1225/c
; Sequence 1225, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; SOFTWARE: Aecomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 1224
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-1224

Query Match 0.5%; Score 14; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2496 CCATCTGGGTCTGA 2509
Db 17 CCATCTGGGTCTGA 4

RESULT 163
US-09-866-108A-1226/c
; Sequence 1226, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; SOFTWARE: Aecomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 1224
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-1226

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; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; SOFTWARE: Aecomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 1225
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-1225

Query Match 0.5%; Score 14; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2496 CCATCTGGGTCTGA 2509
Db 16 CCATCTGGGTCTGA 3

RESULT 163
US-09-866-108A-1226/c
; Sequence 1226, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; SOFTWARE: Aecomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 1224
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-1226

```

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; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Acomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 1226
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-866-108A-1226

Query Match 0.5%; Score 14; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2496 CCATCTGGGTCTGA 2509
Db 15 CCATCTGGGTCTGA 2

RESULT 164
US-09-866-108A-1227/c
; Sequence 1227, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: ACOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Acomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 1227
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-866-108A-1227

Query Match 0.5%; Score 14; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
```

```
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2496 CCATCTGGGTCTGA 2509
Db 14 CCATCTGGGTCTGA 1

RESULT 165
US-08-068-747-4
; Sequence 4, Application US/08068747
; Patent No. 5695933
; GENERAL INFORMATION:
; APPLICANT: Schalling, Martin
; APPLICANT: Hudson, Thomas J.
; APPLICANT: Housman, David E.
; TITLE OF INVENTION: Direct Determination of Expanded
; Nucleotide Repeats in the Human Genome
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/068,747
; FILING DATE: 28-MAY-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: MIT-6141
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-861-6240
; TELEFAX: 617-861-9540
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "Synthetic"
; US-08-068-747-4

Query Match 0.5%; Score 14; DB 1; Length 30;
Best Local Similarity 66.7%; Pred. No. 2.2e+02;
Matches 20; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 476 AGGAGGAGATGCCAAGGCGGAGGCGTCGG 505
Db 1 AGGAGGAGGAGGAGGAGGAGGAGGAGG 30

RESULT 166
US-08-589-109A-12/c
; Sequence 12, Application US/08589109A
; Patent No. 6365344
; GENERAL INFORMATION:
; APPLICANT: No. 6365344an, Garry P.
; APPLICANT: Rothenberg, Michael S.
; TITLE OF INVENTION: Methods for Screening for Transdominant
; Effector Peptides and RNA Molecules
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Flehr, Hohnbach, Test, Albritton & Herbert
; STREET: 4 Embarcadero Center, Suite 3400
```

CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94111-4187  
COMPUTER READABLE FORM:  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/589,109A  
FILING DATE: 23-JAN-1996  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Silva, Robin M.  
REGISTRATION NUMBER: 38,304  
REFERENCE/DOCKET NUMBER: A-64259/DJB/RMS  
TELEPHONE: (415) 781-1989  
TELEFAX: (415) 949-8711  
INFORMATION FOR SEQ ID NO: 12:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 30 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: unknown  
TOPOLOGY: unknown  
MOLECULE TYPE: cDNA  
US-08-589-109A-12

Query Match 0.5%; Score 14; DB 1; Length 30;  
Best Local Similarity 66.7%; Pred. No. 2.2e+02;  
Matches 20; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

OY 476 AGGAGGATGCGCAAGCGGAGGCGTGG 505  
||||||| || ||||| ||  
Db 30 AGGAGGAGGAGGAGGAGGAGGAGG 1

RESULT 167  
US-09-336-643A-55/c  
Sequence 55, Application US/09336643A  
Patent No. 6399761  
GENERAL INFORMATION:  
APPLICANT: Miller, Andrew P.  
APPLICANT: Curran, Mark Edward  
APPLICANT: Hu, Ping  
APPLICANT: Rutter, Marc  
APPLICANT: Wang, Jian-Wang  
TITLE OF INVENTION: No. 6399761el Human Potassium Channels  
FILE REFERENCE: SEQ-15P  
CURRENT APPLICATION NUMBER: US/09/336,643A  
CURRENT FILING DATE: 1999-06-18  
PRIOR APPLICATION NUMBER: 60/076,687  
PRIOR FILING DATE: 1998-08-07  
PRIOR APPLICATION NUMBER: 60/116,448  
PRIOR FILING DATE: 1999-01-19  
PRIOR APPLICATION NUMBER: PCT/US99/03826  
PRIOR FILING DATE: 1999-02-22  
NUMBER OF SEQ ID NOS: 87  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 55  
LENGTH: 45  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Primer  
US-09-336-643A-55

Query Match 0.5%; Score 14; DB 1; Length 45;  
Best Local Similarity 66.7%; Pred. No. 1.7e+02;  
Matches 20; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

OY 1696 GTCACATGACACGCTTGGCTATGGGAC 1725

Db 42 GTCCCATAGCAACCGTGGTCCATGGTGAC 13  
||||| ||| ||| ||| ||| ||| |||

RESULT 168  
US-07-954-830-1  
Sequence 1, Application US/07954830  
Patent No. 5356777  
GENERAL INFORMATION:  
APPLICANT: Hoffman, Eric P.  
APPLICANT: Spier, Sharon J.  
APPLICANT: Rudolf, Jeffrey A.  
APPLICANT: Byrns, Glen  
APPLICANT: Bernoco, Domenico  
TITLE OF INVENTION: Methods Of Detecting Periodic  
TITLE OF INVENTION: Paralysis In Horses  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: University of Pittsburgh  
STREET: Office of Intellectual Property  
STREET: 911 William Pitt Union  
CITY: Pittsburgh  
STATE: Pennsylvania  
COUNTRY: USA  
ZIP: 15260  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 5-1/4" low density diskette  
COMPUTER: IBM PC or compatibles  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: ASCII  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/954,830  
FILING DATE: 19921001  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Frederick H. Colen; Mary-Elizabeth Buckles  
REGISTRATION NUMBER: 28,061; 31,907  
REFERENCE/DOCKET NUMBER: 92-232  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 412/288-4164  
TELEFAX: 412/288-3063  
TELEX: 277871  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 17 nucleotides  
TYPE: NUCLEIC ACID  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: genomic DNA  
HYPOTHETICAL: yes  
ANTI-SENSE: no  
ORIGINAL SOURCE: muscle mRNA  
ORGANISM: horse  
STRAIN: Quarter Horse  
INDIVIDUAL ISOLATE: normal horse  
HAPLOTYPE: normal horse  
TISSUE TYPE: adult skeletal muscle  
CELL TYPE: myofiber  
FEATURE:  
NAME/KEY: normal sequence region of horse sodium  
NAME/KEY: channel gene overlapping mutation causing hyperkalemic  
NAME/KEY: periodic paralysis  
LOCATION: domain IV, region S3  
IDENTIFICATION METHOD: cross-species RT-PCR using  
OTHER INFORMATION: previously described rat and human sequences  
OTHER INFORMATION: complete horse sequence not  
PUBLICATION INFORMATION:  
AUTHORS: Rudolf, J.A.  
AUTHORS: Spier, S.J.

;  
; AUTHORS: Byrns, G.  
; AUTHORS: Rojas, C.V.  
; AUTHORS: Bernoco, D.  
; AUTHORS: Hoffman, E.P.  
; TITLE: Periodic Paralysis In Quarter Horses: A  
; TITLE: Sodium Channel Mutation Disseminated By Selective  
; TITLE: Breeding  
; JOURNAL: Nature Genetics  
; VOLUME: 2  
; PAGES: 144-147  
; DATE: 1992  
; RELEVANT RESIDUES IN SEQ ID NO: 1: 1 to 17  
US-07-954-830-1

Query Match 0.5%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. NO. 1.2e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1345 AACATCATCGACTTCTG 1361  
Db 1 AACATCTTCGACTTCTG 17

RESULT 169  
US-08-173-489C-91  
; Sequence 91, Application US/08173489C  
; Patent No. 5861244  
; GENERAL INFORMATION:  
; APPLICANT: WANG, C. -G.  
; APPLICANT: HEPBURN, A. G.  
; TITLE OF INVENTION: GENETIC SEQUENCE ASSAY USING DNA  
; TITLE OF INVENTION: TRIPLE-STRAND FORMATION.  
; NUMBER OF SEQUENCES: 365  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: PROFILE DIAGNOSTIC SCIENCES, INC.,  
; STREET: 510 EAST 73RD STREET,  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10021.  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5 inch, 1.44Mb storage  
; COMPUTER: IBM PC/XT/AT  
; OPERATING SYSTEM: MS-DOS version 6.2  
; SOFTWARE: Wordperfect version 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/173,489C  
; FILING DATE: 22 DEC 1993  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/968,436  
; FILING DATE: 29 OCT 1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Handelman, Joseph H.  
; REGISTRATION NUMBER: 26,179  
; REFERENCE/DOCKET NUMBER: U9518-6  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (attorney) (212) 708-1880  
; TELEFAX: (attorney) (212) 246-8959  
; INFORMATION FOR SEQ ID NO: 91:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 17 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double stranded  
; TOPOLOGY: linear  
; MOLECULE TYPE: genomic DNA  
; DESCRIPTION: superoxide dismutase gene (accession #  
; DESCRIPTION: J02947) nucleotides 1094 to 1110  
; HYPOTHETICAL: no  
; ANTI-SENSE: no  
; ORIGINAL SOURCE:  
; ORGANISM: Homo sapiens  
; POSITION IN GENOME:

;  
; CHROMOSOME/SEGMENT: chromosome 21  
; MAP POSITION: 21q22.1  
; PUBLICATION INFORMATION:  
; AUTHORS: Hjalmarsson, K, Marklund, S L,  
; AUTHORS: Engstrom, A, Edlund, T.  
; TITLE: Isolation and sequence of  
; TITLE: complementary dna encoding human extracellular-  
; TITLE: superoxide dismutase  
; JOURNAL: Proceedings of the National Academy of  
; JOURNAL: Sciences, USA  
; VOLUME: 84  
; PAGES: 6340-6344  
; DATE: 1987  
; RELEVANT RESIDUES IN SEQ ID NO: 91 :FROM 1 TO 17  
US-08-173-489C-91

Query Match 0.5%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. NO. 1.2e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2654 CCTGTTCCTCCACCCC 2670  
Db 1 CCTCTTCCTCCACCCC 17

RESULT 170  
US-08-373-124A-196  
; Sequence 196, Application US/08373124A  
; Patent No. 5646042  
; GENERAL INFORMATION:  
; APPLICANT: Stinchcomb, Dan T.  
; APPLICANT: Draper, Kenneth  
; APPLICANT: McSwiggen, James  
; APPLICANT: Jarvis, Thale  
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR  
; TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND  
; TITLE OF INVENTION: CANCER USING RIBOZYMES  
; NUMBER OF SEQUENCES: 2627  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/373,124A  
; FILING DATE: January 13, 1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/245,466  
; FILING DATE: May 18, 1994  
; APPLICATION NUMBER: 08/192,943  
; FILING DATE: February 7, 1994  
; APPLICATION NUMBER: 07/987,132  
; FILING DATE: December 7, 1992  
; APPLICATION NUMBER: 07/936,422  
; FILING DATE: August 26, 1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 209/035  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 196:

; SEQUENCE CHARACTERISTICS:  
; LENGTH: 17 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-373-124A-196

Query Match 0.5%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 52.9%; Pred. No. 1.2e+02;  
Matches 9; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 289 CACCTCCTCCTCTCT 305  
Db 1 CUCCUCCUCCUCCUCCU 17

RESULT 171  
US-08-373-124A-198  
; Sequence 198, Application US/08373124A  
; Patent No. 5646042  
; GENERAL INFORMATION:  
; APPLICANT: Stinchcomb, Dan T.  
; APPLICANT: Draper, Kenneth  
; APPLICANT: McSwiggen, James  
; APPLICANT: Jarvis, Thale  
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR  
; TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND  
; TITLE OF INVENTION: CANCER USING RIBOZYMES  
; NUMBER OF SEQUENCES: 2627  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071

COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/373.124A  
; FILING DATE: January 13, 1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/245,466  
; FILING DATE: May 18, 1994  
; APPLICATION NUMBER: 08/192,943  
; FILING DATE: February 7, 1994  
; APPLICATION NUMBER: 07/987,132  
; FILING DATE: December 7, 1992  
; APPLICATION NUMBER: 07/936,422  
; FILING DATE: August 26, 1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 209/035  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 198:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 17 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-373-124A-198

Query Match 0.5%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 47.1%; Pred. No. 1.2e+02;

Matches 8; Conservative 7; Mismatches 2; Indels 0; Gaps 0;  
QY 292 CTCCTCCTCCTCTCTCGT 308  
Db 1 CUCCUCCUCCUCCUCCU 17

RESULT 172  
US-08-373-124A-564/c  
; Sequence 564, Application US/08373124A  
; Patent No. 5646042  
; GENERAL INFORMATION:  
; APPLICANT: Stinchcomb, Dan T.  
; APPLICANT: Draper, Kenneth  
; APPLICANT: McSwiggen, James  
; APPLICANT: Jarvis, Thale  
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR  
; TITLE OF INVENTION: TREATMENT OF RESTENOSIS AND  
; TITLE OF INVENTION: CANCER USING RIBOZYMES  
; NUMBER OF SEQUENCES: 2627  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071  
COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: Word Perfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/373.124A  
; FILING DATE: January 13, 1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/245,466  
; FILING DATE: May 18, 1994  
; APPLICATION NUMBER: 08/192,943  
; FILING DATE: February 7, 1994  
; APPLICATION NUMBER: 07/987,132  
; FILING DATE: December 7, 1992  
; APPLICATION NUMBER: 07/936,422  
; FILING DATE: August 26, 1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 209/035  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 564:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 17 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-373-124A-564

Query Match 0.5%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 1.2e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1462 ATCCTGGGATCTTCAA 1478  
Db 17 ATCCTGGAGATCTTCTA 1

RESULT 173  
US-08-435-628-196



ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: Word Perfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/435,628  
FILING DATE: 05-MAY-1995  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/373,124  
FILING DATE: January 13, 1995  
APPLICATION NUMBER: 08/245,466  
FILING DATE: May 18, 1994  
APPLICATION NUMBER: 08/192,943  
FILING DATE: February 7, 1994  
APPLICATION NUMBER: 07/987,132  
FILING DATE: December 7, 1992  
APPLICATION NUMBER: 07/936,422  
FILING DATE: August 26, 1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 209/035  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 564:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 17 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-435-628-564

Query Match 0.5%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 1.2e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1462 ATCTGCGGATCTTCAA 1478  
Db 17 ATCTGCGGATCTTCTA 1

RESULT 176  
US-08-554-612C-35  
Sequence 35, Application US/08554612C  
Patent No. 5747660  
GENERAL INFORMATION:  
APPLICANT: Orlicky, David  
TITLE OF INVENTION: PROSTAGLANDIN F2<sub>1</sub> RECEPTOR REGULATORY  
TITLE OF INVENTION: PROTEIN AND THERAPEUTIC USES  
NUMBER OF SEQUENCES: 51  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson P.C.  
STREET: 2200 Sand Hill Road, Suite 100  
CITY: Menlo Park  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 94025  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/554,612C  
FILING DATE: No. 5747660ember 6, 1995  
CLASSIFICATION: 536  
ATTORNEY/AGENT INFORMATION:  
NAME: Sherwood, Pamela  
REGISTRATION NUMBER: 36,677  
REFERENCE/DOCKET NUMBER: 06519/004001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 322-5070  
TELEFAX: (415) 854-0875  
INFORMATION FOR SEQ ID NO: 35:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 17 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
US-08-554-612C-35

Query Match 0.5%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 1.2e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 649 AGCGCAGCAGCGCGG 665  
Db 1 AGCGCAGCAGCAGCGG 17

RESULT 177  
US-08-758-306-779  
Sequence 779, Application US/08758306  
Patent No. 5807743  
GENERAL INFORMATION:  
APPLICANT: Stinchcomb, Dan T.  
APPLICANT: McSwiggen, James A.  
TITLE OF INVENTION: METHOD AND REAGENT FOR THE  
TITLE OF INVENTION: TREATMENT OF DISEASES  
TITLE OF INVENTION: ASSOCIATED WITH  
TITLE OF INVENTION: INTERLEUKIN-2 RECEPTOR  
TITLE OF INVENTION: GAMMA-CHAIN EXPRESSION  
NUMBER OF SEQUENCES: 1379  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071-2066  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: FastSeq Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/758,306  
FILING DATE: December 3, 1996  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 212/132  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 779:

; SEQUENCE CHARACTERISTICS:  
; LENGTH: 17 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-758-306-779

Query Match 0.5%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 58.8%; Pred. No. 1.2e+02;  
Matches 10; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 135 CCTAGGTTCTCTGCGC 151  
||:| :|: ||:|  
Db 1 CCUAGAUUCCUGCC 17

RESULT 178  
US-08-758-306-829  
; Sequence 829, Application US/08758306  
; Patent No. 5807743  
; GENERAL INFORMATION:  
; APPLICANT: Stinchcomb, Dan T.  
; TITLE OF INVENTION: METHOD AND REAGENT FOR THE  
; TITLE OF INVENTION: TREATMENT OF DISEASES  
; TITLE OF INVENTION: ASSOCIATED WITH  
; TITLE OF INVENTION: INTERLEUKIN-2 RECEPTOR  
; TITLE OF INVENTION: GAMMA-CHAIN EXPRESSION  
; NUMBER OF SEQUENCES: 1379  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Lyon & Lyon  
; STREET: 633 West Fifth Street  
; CITY: Suite 4700  
; CITY: Los Angeles  
; STATE: California  
; COUNTRY: U.S.A.  
; ZIP: 90071-2066  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
; MEDIUM TYPE: storage  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: IBM P.C. DOS 5.0  
; SOFTWARE: FastSeq Version 1.5  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/758,306  
; FILING DATE: December 3, 1996  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Warburg, Richard J.  
; REGISTRATION NUMBER: 32,327  
; REFERENCE/DOCKET NUMBER: 212/132  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (213) 489-1600  
; TELEFAX: (213) 955-0440  
; TELEX: 67-3510  
; INFORMATION FOR SEQ ID NO: 829:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 17 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-758-306-829

Query Match 0.5%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 52.9%; Pred. No. 1.2e+02;  
Matches 9; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 2439 TCCTGTTTGCAAGA 2455  
:|:|:|:|:|:|  
Db 1 UCCUUGUUGCACUGGA 17

RESULT 179  
US-08-881-450A-15/c  
; Sequence 15, Application US/08881450A  
; Patent No. 6274310  
; GENERAL INFORMATION:  
; APPLICANT: Habener, J.F. and Stoffers, D.A.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DETECTING  
; TITLE OF INVENTION: PANCREATIC DISEASE  
; NUMBER OF SEQUENCES: 24  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Banner & Witcoff, Inc.  
; STREET: One Financial Center  
; CITY: Boston  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02111  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: WordPerfect 6.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/881,450A  
; FILING DATE: June 24, 1997  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Kathleen M. Williams  
; REGISTRATION NUMBER: 34,380  
; REFERENCE/DOCKET NUMBER: 11275/7823  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-345-9100  
; TELEFAX: 617-345-9111  
; INFORMATION FOR SEQ ID NO: 15:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 17 nucleotides  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: other nucleic acid  
; FEATURE:  
; OTHER INFORMATION: Mutant primer for allele-specific  
; OTHER INFORMATION: hybridization analysis of IPP-1 gene.  
US-08-881-450A-15

Query Match 0.5%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 1.2e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1005 GTCCGGGGGTGCGGTG 1021  
||||| |||||  
Db 17 GTCCGGGGGTGCGCTG 1

RESULT 180  
US-08-957-351-28  
; Sequence 28, Application US/08957351  
; Patent No. 6306586  
; GENERAL INFORMATION:  
; APPLICANT: Semina, Elena  
; APPLICANT: Murray, Jeffrey C.  
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE  
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF CATARACTS  
; NUMBER OF SEQUENCES: 33  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: FOLEY, HOAG & ELIOT LLP  
; STREET: One Post Office Square  
; CITY: Boston  
; STATE: MA



```
; COUNTRY: USA
; ZIP: 02109-2170
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/957,351
; FILING DATE: 24-OCT-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Arnold, Beth E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIA-024.01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-832-1000
; TELEFAX: 617-832-7000
; INFORMATION FOR SEQ ID NO: 28:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "probe"
; US-08-957-351-28

Query Match 0.5%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 1.2e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 955 GCCTTGCAGCGCTGG 971
Db 1 GCCTGCAGGGCTGG 17

RESULT 181
US-09-021-701-60
; Sequence 60, Application US/09021701
; Patent No. 6251588
; GENERAL INFORMATION:
; APPLICANT: Shannon, Karen W.
; APPLICANT: Wolber, Paul K.
; APPLICANT: Delenstarr, Glenda C.
; APPLICANT: Webb, Peter G.
; APPLICANT: Kincaid, Robert H.
; TITLE OF INVENTION: Methods for evaluating oligonucleotide
; NUMBER OF SEQUENCES: 1165
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Records Manager, Hewlett-Packard Company M/S 20
; STREET: 3000 Hanover Street
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/021,701
; FILING DATE: 10-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Choi, Wendy A.
; REGISTRATION NUMBER: 36,697
; REFERENCE/DOCKET NUMBER: 10971464-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-236-2386
; TELEFAX: 650-852-8063
```

```
; INFORMATION FOR SEQ ID NO: 60:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; US-09-021-701-60

Query Match 0.5%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 1.2e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1635 CCCACGGGGCAATGACC 1651
Db 1 CCCACGGGGCAATGACC 17

RESULT 182
US-09-216-909-7/c
; Sequence 7, Application US/09216909
; Patent No. 6207440
; GENERAL INFORMATION:
; APPLICANT: HOVANEC, TIMOTHY
; TITLE OF INVENTION: BACTERIAL NITRITE OXIDIZER AND METHOD OF USE THEREOF
; FILE REFERENCE: nitrite oxidizer
; CURRENT APPLICATION NUMBER: US/09/216,909
; CURRENT FILING DATE: 1998-12-21
; EARLIER APPLICATION NUMBER: 60/068,492
; EARLIER FILING DATE: 1997-12-22
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 7
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Oligonucleotide
; OTHER INFORMATION: primer
; US-09-216-909-7

Query Match 0.5%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 1.2e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 124 CTCCTGCCTCCCTAGG 140
Db 17 CTGCTGCCTCCCTAGG 1

RESULT 183
US-09-260-527-7
; Sequence 7, Application US/09260527A
; Patent No. 6228599
; GENERAL INFORMATION:
; APPLICANT: Knox, J.P.
; APPLICANT: Mikkelsen, J.D.
; APPLICANT: Willats, W. G.
; TITLE OF INVENTION: ANTIBODY
; FILE REFERENCE: DY0U19.001AUS
; CURRENT APPLICATION NUMBER: US/09/260,527A
; CURRENT FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Sequencing primer sequence PAM seq1
; US-09-260-527-7
```

```
Query Match          0.5%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 1.2e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 328 TGACGCTGCTCTCTTGG 344
    ||| ||| ||| ||| ||| |||
Db 1 TGAGGCTGTCTCTTGG 17

RESULT 184
US-09-474-432B-790
; Sequence 790, Application US/09474432B
; Patent No. 6528640
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Beigelman, Leo
; APPLICANT: Burgin, Alex
; APPLICANT: Beaudry, Amber
; APPLICANT: Karpeisky, Alex
; APPLICANT: Adamic, Jasenka
; APPLICANT: Sweedler, David
; APPLICANT: Zinnen, Shawn
; TITLE OF INVENTION: Nucleotide triphosphate and their incorporation into oligonucleot
; FILE REFERENCE: MHB00-831-B (247/276)
; CURRENT APPLICATION NUMBER: US/09/474,432B
; CURRENT FILING DATE: 1999-12-19
; PRIOR APPLICATION NUMBER: US 60/064,866
; PRIOR FILING DATE: 1997-11-05
; PRIOR APPLICATION NUMBER: US 60/084,727
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: US 09/186,675
; PRIOR FILING DATE: 1998-11-04
; PRIOR APPLICATION NUMBER: US 09/301,511
; PRIOR FILING DATE: 1999-04-28
; NUMBER OF SEQ ID NOS: 1526
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 790
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-474-432B-790

Query Match          0.5%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 1.2e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 359 GGGCAGCGCGGCCCA 375
    ||| ||| ||| ||| ||| |||
Db 1 GGGAGCGCGUGGCCCA 17

RESULT 185
US-09-476-387-789
; Sequence 789, Application US/09476387
; Patent No. 6617438
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; APPLICANT: Beigelman, Leo
; APPLICANT: Beaudry, Amber
; APPLICANT: Karpeisky, Alex
; APPLICANT: Adamic, Jasenka Matulic
; APPLICANT: Sweedler, Dave
; APPLICANT: Zinnen, Shawn
; TITLE OF INVENTION: Nucleotide Triphosphate and their Incorporation into Oligonucleot
; FILE REFERENCE: MHB00-831-C (249/073)
; CURRENT APPLICATION NUMBER: US/09/476,387
; CURRENT FILING DATE: 2001-04-04
; PRIOR APPLICATION NUMBER: 09/474,432
; PRIOR FILING DATE: 1999-12-29
; PRIOR APPLICATION NUMBER: 09/301,511
; PRIOR FILING DATE: 1999-04-28
; PRIOR APPLICATION NUMBER: 09/186,675
```

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; PRIOR FILING DATE: 1998-11-04
; PRIOR APPLICATION NUMBER: 60/083,727
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/064,866
; PRIOR FILING DATE: 1997-11-05
; NUMBER OF SEQ ID NOS: 1524
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 789
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-476-387-789

Query Match          0.5%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 1.2e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 359 GGGCAGCGCGGCCCA 375
    ||| ||| ||| ||| ||| |||
Db 1 GGGAGCGCGUGGCCCA 17

RESULT 186
US-09-554-267-22
; Sequence 22, Application US/09554267
; Patent No. 6878547
; GENERAL INFORMATION:
; APPLICANT: PEYMAN, ANUSCHIRWAN
; APPLICANT: UHLMANN, EUGEN
; APPLICANT: WEISER, CAROLINE
; TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES AGAINST TENASCIN FOR
; FILE REFERENCE: 02481.1669
; CURRENT APPLICATION NUMBER: US/09/554,267
; CURRENT FILING DATE: 2000-07-24
; PRIOR APPLICATION NUMBER: PCT/EP98/06868
; PRIOR FILING DATE: 1998-10-29
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 22
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
US-09-554-267-22

Query Match          0.5%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 1.2e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 970 GGCCCCCATGAAGGAGG 986
    ||| ||| ||| ||| ||| |||
Db 1 GGCCCCCATGGTGAGG 17

RESULT 187
US-09-554-267-3
; Sequence 3, Application US/09554267
; Patent No. 6878547
; GENERAL INFORMATION:
; APPLICANT: PEYMAN, ANUSCHIRWAN
; APPLICANT: UHLMANN, EUGEN
; APPLICANT: WEISER, CAROLINE
; TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES AGAINST TENASCIN FOR
; FILE REFERENCE: 02481.1669
; CURRENT APPLICATION NUMBER: US/09/554,267
; CURRENT FILING DATE: 2000-07-24
; PRIOR APPLICATION NUMBER: PCT/EP98/06868
; PRIOR FILING DATE: 1998-10-29
; NUMBER OF SEQ ID NOS: 58
```

```

; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
US-09-554-267-3

Query Match      0.5%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 1.2e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 970 GGCCCCCATGAGGAGG 986
Db 1 GGCCCCCATGAGGAGG 17

RESULT 188
US-09-554-267-41
; Sequence 41, Application US/09554267
; Patent No. 6878547
; GENERAL INFORMATION:
; APPLICANT: PEYMAN, ANUSCHIRWAN
; APPLICANT: UHLMANN, EUGEN
; APPLICANT: WEISER, CAROLINE
; TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES AGAINST TENASCIN FOR
; TITLE OF INVENTION: TREATING VITILIGO
; FILE REFERENCE: 02481.1669
; CURRENT APPLICATION NUMBER: US/09/554,267
; CURRENT FILING DATE: 2000-07-24
; PRIOR APPLICATION NUMBER: PCT/EP98/06868
; PRIOR FILING DATE: 1998-10-29
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 41
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
US-09-554-267-41

Query Match      0.5%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 1.2e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 970 GGCCCCCATGAGGAGG 986
Db 1 GGCCCCCATGAGGAGG 17

RESULT 189
US-09-702-843-7/c
; Sequence 7, Application US/09702843
; Patent No. 6265206
; GENERAL INFORMATION:
; APPLICANT: HOVANEC, TIMOTHY
; TITLE OF INVENTION: BACTERIAL NITRITE OXIDIZER AND METHOD OF USE THEREOF
; FILE REFERENCE: nitrite oxidizer
; CURRENT APPLICATION NUMBER: US/09/702,843
; CURRENT FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/216,909
; PRIOR FILING DATE: 1998-10-16
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Oligonucleotide
; OTHER INFORMATION: primer
US-09-702-847-7

Query Match      0.5%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 1.2e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 124 CTCCTGCTCCCTAGG 140
Db 17 CTGCTGCTCCCTAGG 1

RESULT 190
US-09-702-847-7/c
; Sequence 7, Application US/09702847
; Patent No. 6268154
; GENERAL INFORMATION:
; APPLICANT: HOVANEC, TIMOTHY
; TITLE OF INVENTION: BACTERIAL NITRITE OXIDIZER AND METHOD OF USE THEREOF
; FILE REFERENCE: nitrite oxidizer
; CURRENT APPLICATION NUMBER: US/09/702,847
; CURRENT FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/216,909
; PRIOR FILING DATE: 1998-10-16
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Oligonucleotide
; OTHER INFORMATION: primer
US-09-702-847-7

Query Match      0.5%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 1.2e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 124 CTCCTGCTCCCTAGG 140
Db 17 CTGCTGCTCCCTAGG 1

RESULT 191
US-09-818-875-1415/c
; Sequence 1415, Application US/09818875
; Patent No. 6936467
; GENERAL INFORMATION:
; APPLICANT: Kmiec, Eric B.
; APPLICANT: Gamber, Howard B.
; APPLICANT: Rice, Michael C.
; TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single
; FILE REFERENCE: Stranded Oligonucleotides
; CURRENT APPLICATION NUMBER: US/09/818,875
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 60/192,176
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/192,179
; PRIOR FILING DATE: 2000-03-27
; PRIOR APPLICATION NUMBER: US 60/208,538
; PRIOR FILING DATE: 2000-06-01
; PRIOR APPLICATION NUMBER: US 60/244,989
; PRIOR FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 4385
; SOFTWARE: Friedman macro Napro4
; SEQ ID NO 1415
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Oligonucleotide
; OTHER INFORMATION: primer
US-09-818-875-1415

```

Query Match 0.5%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 1.2e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 40 CCCC GCCCGGAGCAGC 56  
|||||  
Db 17 CCCC GCCCGGAGCAGC 1

## RESULT 192

US-09-818-875-1416  
; Sequence 1416, Application US/09818875  
; Patent No. 6936467  
; GENERAL INFORMATION:  
; APPLICANT: Kmiec, Eric B.  
; APPLICANT: Gamper, Howard B.  
; APPLICANT: Rice, Michael C.  
; TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single  
; TITLE OF INVENTION: Stranded Oligonucleotides  
; FILE REFERENCE: Napro-4  
; CURRENT APPLICATION NUMBER: US/09/818,875  
; CURRENT FILING DATE: 2001-03-27  
; PRIOR APPLICATION NUMBER: US 60/192,176  
; PRIOR FILING DATE: 2000-03-27  
; PRIOR APPLICATION NUMBER: US 60/192,179  
; PRIOR FILING DATE: 2000-03-27  
; PRIOR APPLICATION NUMBER: US 60/208,538  
; PRIOR FILING DATE: 2000-06-01  
; PRIOR APPLICATION NUMBER: US 60/244,989  
; PRIOR FILING DATE: 2000-10-30  
; NUMBER OF SEQ ID NOS: 4385  
; SOFTWARE: Friedman macro Napro4  
; SEQ ID NO 1416  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-818-875-1416

Query Match 0.5%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 1.2e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 40 CCCC GCCCGGAGCAGC 56  
|||||  
Db 1 CCCC GCCCGGAGCAGC 17

## RESULT 193

US-09-818-875-3470/c  
; Sequence 3470, Application US/09818875  
; Patent No. 6936467  
; GENERAL INFORMATION:  
; APPLICANT: Kmiec, Eric B.  
; APPLICANT: Gamper, Howard B.  
; APPLICANT: Rice, Michael C.  
; TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single  
; TITLE OF INVENTION: Stranded Oligonucleotides  
; FILE REFERENCE: Napro-4  
; CURRENT APPLICATION NUMBER: US/09/818,875  
; CURRENT FILING DATE: 2001-03-27  
; PRIOR APPLICATION NUMBER: US 60/192,176  
; PRIOR FILING DATE: 2000-03-27  
; PRIOR APPLICATION NUMBER: US 60/192,179  
; PRIOR FILING DATE: 2000-03-27  
; PRIOR APPLICATION NUMBER: US 60/208,538  
; PRIOR FILING DATE: 2000-06-01  
; PRIOR APPLICATION NUMBER: US 60/244,989  
; PRIOR FILING DATE: 2000-10-30  
; NUMBER OF SEQ ID NOS: 4385  
; SOFTWARE: Friedman macro Napro4  
; SEQ ID NO 3470  
; LENGTH: 17

; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-818-875-3470

Query Match 0.5%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 1.2e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2739 CTGCCCCCTCCAGCTGGG 2755  
|||||  
Db 17 CTGCTCTCCAGCTTGG 1

## RESULT 194

US-09-818-875-3471  
; Sequence 3471, Application US/09818875  
; Patent No. 6936467  
; GENERAL INFORMATION:  
; APPLICANT: Kmiec, Eric B.  
; APPLICANT: Gamper, Howard B.  
; APPLICANT: Rice, Michael C.  
; TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations with Modified Single  
; TITLE OF INVENTION: Stranded Oligonucleotides  
; FILE REFERENCE: Napro-4  
; CURRENT APPLICATION NUMBER: US/09/818,875  
; CURRENT FILING DATE: 2001-03-27  
; PRIOR APPLICATION NUMBER: US 60/192,176  
; PRIOR FILING DATE: 2000-03-27  
; PRIOR APPLICATION NUMBER: US 60/192,179  
; PRIOR FILING DATE: 2000-03-27  
; PRIOR APPLICATION NUMBER: US 60/208,538  
; PRIOR FILING DATE: 2000-06-01  
; PRIOR APPLICATION NUMBER: US 60/244,989  
; PRIOR FILING DATE: 2000-10-30  
; NUMBER OF SEQ ID NOS: 4385  
; SOFTWARE: Friedman macro Napro4  
; SEQ ID NO 3471  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-818-875-3471

Query Match 0.5%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 1.2e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2739 CTGCCCCCTCCAGCTGGG 2755  
|||||  
Db 1 CTGCTCTCCAGCTTGG 17

## RESULT 195

US-09-856-662-56  
; Sequence 56, Application US/09856662  
; Patent No. 6790616  
; GENERAL INFORMATION:  
; APPLICANT: MORIBE, Toyoki et al.  
; TITLE OF INVENTION: Method for typing HLA class 1 genes  
; FILE REFERENCE: 0032-0261P  
; CURRENT APPLICATION NUMBER: US/09/856,662  
; CURRENT FILING DATE: 2001-05-24  
; PRIOR APPLICATION NUMBER: JP P1998-335151  
; PRIOR FILING DATE: 1998-11-26  
; NUMBER OF SEQ ID NOS: 130  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 56  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: DNA probe BL78  
US-09-856-662-56

```

Query Match      0.5%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 1.2e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1253 TCGAGGCGCTGTGCGTG 1269
Db 1 TCGAGGCGCTGTGCGTG 17

RESULT 196
US-09-860-200F-8/c
; Sequence 8, Application US/09860200F
; Patent No. 6946248
; GENERAL INFORMATION:
; APPLICANT: Kevin, Bowers R.
; TITLE OF INVENTION: Compositions and Methods for Microbial Dechlorination of
; TITLE OF INVENTION: Polychlorinated Biphenyl Compounds
; FILE REFERENCE: 4115-149
; CURRENT APPLICATION NUMBER: US/09/860,200F
; PRIOR FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: US 60/205,818
; PRIOR FILING DATE: 2000-05-19
; PRIOR APPLICATION NUMBER: US 60/266,650
; PRIOR FILING DATE: 2001-02-06
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 8
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Construct
US-09-860-200F-8

Query Match      0.5%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 1.2e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 124 CTCCTGCCTCCCTAGG 140
Db 17 CTGCTGCCTCCCTAGG 1

RESULT 197
US-09-866-108A-1222/c
; Sequence 1222, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aecomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 1223
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-1223

```

```

; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aecomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 1222
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-1222

Query Match      0.5%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 1.2e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2498 ATCTGGGTCTGATACCTC 2514
Db 17 ATCTGGGTCTGAGGCTC 1

RESULT 198
US-09-866-108A-1223/c
; Sequence 1223, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aecomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 1223
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-1223

Query Match      0.5%; Score 13.8; DB 1; Length 17;

```

```
Best Local Similarity 88.2%; Pred. No. 1.2e+02; Indels 0; Gaps 0;
Matches 15; Conservative 0; Mismatches 2;

QY 2497 CATCTGGTCTGATCT 2513
DB 17 CATCTGGTCTGAGCT 1

RESULT 199
US-09-866-108A-1229/c
; Sequence 1229, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; SOFTWARE: Aecomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 1229
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-1229

Query Match 0.5%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 1.2e+02; Indels 0; Gaps 0;
Matches 15; Conservative 0; Mismatches 2;

QY 1101 CTCTTCATCTTGCT 1117
DB 17 CTCTCCATCTGGTCT 1

RESULT 200
US-09-866-108A-1230/c
; Sequence 1230, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; SOFTWARE: Aecomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 1229
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-1229

Query Match 0.5%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 1.2e+02; Indels 0; Gaps 0;
Matches 15; Conservative 0; Mismatches 2;

QY 1100 TCTTCTCATCTTGGTC 1116
DB 17 TCTTCTCATCTTGGTC 1

RESULT 201
US-09-866-108A-2565/c
; Sequence 2565, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; SOFTWARE: Aecomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 1229
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-1229
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PRIOR APPLICATION NUMBER: PCT/US01/00669  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00665  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00668  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00663  
PRIOR FILING DATE: 2001-01-30  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 15755  
SOFTWARE: Aeomica Sequence Listing Engine  
Patent No. 6686188  
SEQ ID NO 2565  
LENGTH: 17  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-866-108A-2565

Query Match 0.5%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 1.2e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2156 AGGCAGCTGCTGCTTC 2172  
Db 17 AGGCAGCTGCTGCTTC 1

RESULT 202  
US-09-866-108A-2566/c  
Sequence 2566, Application US/09866108A  
Patent No. 6686188  
GENERAL INFORMATION:  
APPLICANT: GU, Yizhong  
APPLICANT: JI, Yonggang  
APPLICANT: PENN, Sharron G.  
APPLICANT: HANZEL, David K.  
APPLICANT: RANK, David R.  
APPLICANT: CHEN, Wensheng  
APPLICANT: SHANNON, Mark  
TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
FILE REFERENCE: AEOMICA-7  
CURRENT APPLICATION NUMBER: US/09/866,108A  
CURRENT FILING DATE: 2001-05-25  
PRIOR APPLICATION NUMBER: US 60/207,456  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: GB 24263.6  
PRIOR FILING DATE: 2000-10-04  
PRIOR APPLICATION NUMBER: US 60/236,359  
PRIOR FILING DATE: 2000-09-27  
PRIOR APPLICATION NUMBER: PCT/US01/00666  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00667  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00664  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00669  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00665  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00668  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00663  
PRIOR FILING DATE: 2001-01-30  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 15755  
SOFTWARE: Aeomica Sequence Listing Engine  
Patent No. 6686188  
SEQ ID NO 2566  
LENGTH: 17  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-866-108A-2566

Query Match 0.5%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 1.2e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 2155 AGGCAGCTGCTGCTT 2171  
Db 17 AGGCAGCTGCTGCTT 1

RESULT 203  
US-09-866-108A-7023  
Sequence 7023, Application US/09866108A  
Patent No. 6686188  
GENERAL INFORMATION:  
APPLICANT: GU, Yizhong  
APPLICANT: JI, Yonggang  
APPLICANT: PENN, Sharron G.  
APPLICANT: HANZEL, David K.  
APPLICANT: RANK, David R.  
APPLICANT: CHEN, Wensheng  
APPLICANT: SHANNON, Mark  
TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
FILE REFERENCE: AEOMICA-7  
CURRENT APPLICATION NUMBER: US/09/866,108A  
CURRENT FILING DATE: 2001-05-25  
PRIOR APPLICATION NUMBER: US 60/207,456  
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PRIOR APPLICATION NUMBER: PCT/US01/00666  
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PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00664  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00669  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00665  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00668  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00663  
PRIOR FILING DATE: 2001-01-30  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 15755  
SOFTWARE: Aeomica Sequence Listing Engine  
Patent No. 6686188  
SEQ ID NO 7023  
LENGTH: 17  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-866-108A-7023

Query Match 0.5%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 1.2e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2157 GGCAGCTGCTGCTTC 2173  
Db 1 GGCAGCTGCTGCTTC 17

RESULT 204  
US-09-866-108A-8765/c  
Sequence 8765, Application US/09866108A  
Patent No. 6686188  
GENERAL INFORMATION:  
APPLICANT: GU, Yizhong  
APPLICANT: JI, Yonggang  
APPLICANT: PENN, Sharron G.  
APPLICANT: HANZEL, David K.

```
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
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; PRIOR FILING DATE: 2001-01-30
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; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aecomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 8765
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-8765

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Best Local Similarity 88.2%; Pred. No. 1.2e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      262 ACCACCTCTGCTCTCT 278
Db      17 ACCGCTCTGCTGCTGT 1

RESULT 205
US-09-866-108A-987
; Sequence 987, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aecomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 8765
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-8765
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; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aecomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 987
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-987

Query Match      0.5%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 1.2e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      915 AGGGCCCGCGGACGAGG 931
Db      1 AGGGCCCGCGGAGGGG 17

RESULT 206
US-09-866-108A-9973/c
; Sequence 9973, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
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; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aecomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 9973
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-9973
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Query Match 0.5%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. NO. 1.2e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1565 TGGCCCTGGGGTGTGCTC 1581  
Db 17 TGTCCCTGGGGTGTGTC 1

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Job time : 8 secs

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OM nucleic - nucleic search, using sw model

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3.652 Million cell updates/sec

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Perfect score: 2858  
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Scoring table: IDENTITY\_NUC  
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Searched: 348 seqs, 8306 residues

Total number of hits satisfying chosen parameters: 696

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Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 352 summaries

Database : fetchrnpbm.seq.\*

Pred. No. is the number of results predicted by chance to have a  
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and is derived by analysis of the total score distribution.

SUMMARIES

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27	25	0.9	25	1	US-10-719-956-257596
28	25	0.9	25	1	US-10-719-956-394044
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33	25	0.9	25	1	US-10-719-956-621182

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c 35	25	0.9	25	1	US-10-719-956-677476	Sequence 677476,
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c 47	23.8	0.8	27	1	US-10-903-975-13	Sequence 13, Appl
c 48	23.8	0.8	28	1	US-10-645-471A-18	Sequence 18, Appl
c 49	23.8	0.8	28	1	US-10-660-897-14	Sequence 14, Appl
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c 66	23.4	0.8	25	1	US-10-719-956-625883	Sequence 625883,
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c 71	23.4	0.8	25	1	US-11-060-756-116617	Sequence 116617,
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c 84	22.4	0.8	25	1	US-10-719-900-259068	Sequence 259068,
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c 99	21.8	0.8	25	1	US-11-036-317-133942	Sequence 133942,
c 100	21.8	0.8	25	1	US-11-036-317-484076	Sequence 484076,
c 101	21.8	0.8	25	1	US-11-036-317-493241	Sequence 493241,
c 102	21.8	0.8	25	1	US-11-060-756-186203	Sequence 186203,
c 103	21.8	0.8	25	1	US-11-060-756-214684	Sequence 214684,
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c 105	21.8	0.8	25	1	US-11-060-756-26084	Sequence 26084, A
c 106	21.8	0.8	25	1	US-11-060-756-26088	Sequence 26088, A

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109	21.8	0.8	25	1	US-11-060-756-45791	Sequence 45791, A	c 182	18.4	0.6	21	1	US-10-751-736-10027	Sequence 10027, A
110	21.8	0.8	25	1	US-11-060-756-45796	Sequence 45796, A	c 183	18.4	0.6	21	1	US-10-751-736-43708	Sequence 41708, A
111	21.2	0.7	26	1	US-10-118-854-33	Sequence 33, Appl	184	18	0.6	19	1	US-10-761-557-1	Sequence 1, Appl
112	21.2	0.7	26	1	US-10-607-455-33	Sequence 33, Appl	185	18	0.6	19	1	US-10-761-557-4	Sequence 4, Appl
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c 115	20.8	0.7	24	1	US-10-660-897-25	Sequence 25, Appl	188	17.8	0.6	21	1	US-10-418-182-126	Sequence 126, App
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c 118	20.8	0.7	25	1	US-11-036-317-212322	Sequence 212322, A	191	17.8	0.6	21	1	US-10-708-204-5352	Sequence 5352, App
c 119	20.8	0.7	25	1	US-11-036-317-300079	Sequence 300079, A	c 192	17.8	0.6	21	1	US-10-751-736-10024	Sequence 10024, A
120	20.8	0.7	25	1	US-11-036-317-418633	Sequence 418633, A	193	17.8	0.6	21	1	US-10-831-819-12	Sequence 12, Appl
121	20.8	0.7	25	1	US-11-060-756-141818	Sequence 141818, A	194	17.4	0.6	19	1	US-09-935-338-164	Sequence 164, App
122	20.8	0.7	25	1	US-11-060-756-185862	Sequence 185862, A	c 195	17.4	0.6	19	1	US-09-935-338-166	Sequence 166, App
123	20.8	0.7	25	1	US-11-060-756-185863	Sequence 185863, A	c 196	17.4	0.6	19	1	US-10-478-633A-1A	Sequence 161, App
124	20.8	0.7	25	1	US-11-060-756-197821	Sequence 197821, A	c 197	17.4	0.6	19	1	US-10-923-522-270	Sequence 270, App
125	20.8	0.7	25	1	US-11-060-756-209287	Sequence 209287, A	198	17.4	0.6	19	1	US-10-923-522-7	Sequence 7, Appl
126	20.8	0.7	25	1	US-11-060-756-26082	Sequence 26082, A	199	17.4	0.6	19	1	US-10-929-759-164	Sequence 164, App
127	20.8	0.7	25	1	US-11-060-756-45794	Sequence 45794, A	c 200	17.4	0.6	19	1	US-10-929-759-166	Sequence 166, App
c 128	20.4	0.7	23	1	US-10-645-471A-4	Sequence 4, Appl	c 201	17.4	0.6	19	1	US-10-973-919-184	Sequence 164, App
129	20.4	0.7	25	1	US-10-719-900-359115	Sequence 359115, A	c 202	17.4	0.6	19	1	US-10-973-919-166	Sequence 166, App
130	20.4	0.7	25	1	US-11-060-756-185142	Sequence 185142, A	c 203	17.4	0.6	21	1	US-10-751-736-10025	Sequence 10025, A
131	20.4	0.7	25	1	US-11-060-756-185143	Sequence 185143, A	c 204	17.4	0.6	21	1	US-10-751-736-10028	Sequence 10028, A
132	20.2	0.7	25	1	US-10-719-900-221674	Sequence 221674, A	c 205	17.4	0.6	21	1	US-10-751-736-10030	Sequence 10030, A
133	20.2	0.7	25	1	US-10-719-900-357415	Sequence 357415, A	c 206	17.4	0.6	21	1	US-10-751-736-10327	Sequence 10327, A
134	20.2	0.7	25	1	US-10-719-956-200061	Sequence 200061, A	207	17.4	0.6	21	1	US-10-751-736-40389	Sequence 40389, A
135	20.2	0.7	25	1	US-10-719-956-200062	Sequence 200062, A	c 208	17.4	0.6	21	1	US-10-751-736-41122	Sequence 41122, A
136	20.2	0.7	25	1	US-10-719-956-200067	Sequence 200067, A	c 209	17.4	0.6	21	1	US-10-751-736-41707	Sequence 41707, A
137	20.2	0.7	25	1	US-10-719-956-274083	Sequence 274083, A	c 210	17	0.6	20	1	US-09-948-002-35	Sequence 35, Appl
138	20.2	0.7	25	1	US-10-719-956-570629	Sequence 570629, A	c 211	17	0.6	20	1	US-10-167-034-125	Sequence 125, Appl
c 139	20.2	0.7	25	1	US-10-719-956-591368	Sequence 591368, A	212	17	0.6	20	1	US-10-167-034-58	Sequence 58, Appl
c 140	20.2	0.7	25	1	US-10-956-157-236481	Sequence 236481, A	c 213	17	0.6	20	1	US-10-633-163-35	Sequence 35, Appl
c 141	20.2	0.7	25	1	US-11-036-317-145841	Sequence 145841, A	c 214	17	0.6	20	1	US-09-949-428-97	Sequence 97, Appl
c 142	20.2	0.7	25	1	US-11-036-317-198365	Sequence 198365, A	c 215	17	0.6	21	1	US-09-949-428-97	Sequence 97, Appl
c 143	20.2	0.7	25	1	US-11-036-317-295957	Sequence 295957, A	216	16.8	0.6	20	1	US-09-776-479-243	Sequence 243, App
c 144	20.2	0.7	25	1	US-11-036-317-304436	Sequence 304436, A	c 217	16.8	0.6	20	1	US-09-776-479-257	Sequence 257, App
c 145	20.2	0.7	25	1	US-11-036-317-363126	Sequence 363126, A	c 218	16.8	0.6	20	1	US-09-776-479-530	Sequence 530, App
c 146	20.2	0.7	25	1	US-11-036-317-373294	Sequence 373294, A	219	16.8	0.6	20	1	US-09-776-479-531	Sequence 531, App
147	20.2	0.7	25	1	US-11-036-317-445067	Sequence 445067, A	c 220	16.8	0.6	20	1	US-09-776-479-531	Sequence 531, App
148	20.2	0.7	25	1	US-11-036-317-479639	Sequence 479639, A	c 221	16.8	0.6	20	1	US-09-776-479-981	Sequence 811, App
149	20.2	0.7	25	1	US-11-060-756-123312	Sequence 123312, A	222	16.8	0.6	20	1	US-09-776-479-987	Sequence 987, App
150	20.2	0.7	25	1	US-11-060-756-124299	Sequence 124299, A	223	16.8	0.6	20	1	US-09-800-266A-133	Sequence 133, App
151	20.2	0.7	25	1	US-11-060-756-149069	Sequence 149069, A	c 224	16.8	0.6	20	1	US-09-888-326-168	Sequence 168, App
152	20.2	0.7	25	1	US-11-060-756-154351	Sequence 154351, A	c 225	16.8	0.6	20	1	US-09-888-326-169	Sequence 169, App
153	20.2	0.7	25	1	US-11-060-756-161731	Sequence 161731, A	226	16.8	0.6	20	1	US-09-888-326-410	Sequence 410, App
154	20.2	0.7	25	1	US-11-060-756-163386	Sequence 163386, A	227	16.8	0.6	20	1	US-09-888-326-429	Sequence 429, App
155	20.2	0.7	25	1	US-11-060-756-163387	Sequence 163387, A	228	16.8	0.6	20	1	US-09-888-326-430	Sequence 430, App
156	20.2	0.7	25	1	US-11-060-756-181113	Sequence 181113, A	229	16.8	0.6	20	1	US-09-895-007A-133	Sequence 133, App
157	20.2	0.7	25	1	US-11-060-756-202472	Sequence 202472, A	c 230	16.8	0.6	20	1	US-09-916-369A-2	Sequence 2, Appl
c 158	20.2	0.7	25	1	US-11-060-756-227120	Sequence 227120, A	231	16.8	0.6	20	1	US-09-920-313-133	Sequence 133, App
159	20.2	0.7	25	1	US-11-060-756-239042	Sequence 239042, A	c 232	16.8	0.6	20	1	US-09-965-101-55	Sequence 55, Appl
160	20.2	0.7	25	1	US-11-060-756-239506	Sequence 239506, A	233	16.8	0.6	20	1	US-09-965-101-57	Sequence 57, Appl
161	20.2	0.7	25	1	US-11-060-756-26083	Sequence 26083, A	c 234	16.8	0.6	20	1	US-09-994-701B-7	Sequence 7, Appl
162	20.2	0.7	25	1	US-11-060-756-26085	Sequence 26085, A	235	16.8	0.6	20	1	US-09-994-701B-8	Sequence 8, Appl
163	20.2	0.7	25	1	US-11-060-756-264985	Sequence 264985, A	c 236	16.8	0.6	20	1	US-10-017-995-243	Sequence 243, App
164	20.2	0.7	25	1	US-11-060-756-269351	Sequence 269351, A	c 237	16.8	0.6	20	1	US-10-017-995-257	Sequence 257, App
165	20.2	0.7	25	1	US-11-060-756-277185	Sequence 277185, A	c 238	16.8	0.6	20	1	US-10-017-995-530	Sequence 530, App
166	20.2	0.7	25	1	US-11-060-756-45700	Sequence 45700, A	239	16.8	0.6	20	1	US-10-017-995-531	Sequence 531, App
167	20.2	0.7	25	1	US-11-060-756-45758	Sequence 45758, A	c 240	16.8	0.6	20	1	US-10-017-995-811	Sequence 811, App
168	20.2	0.7	25	1	US-11-060-756-45759	Sequence 45759, A	c 241	16.8	0.6	20	1	US-10-017-995-987	Sequence 987, App
169	20.2	0.7	25	1	US-11-060-756-45762	Sequence 45762, A	c 242	16.8	0.6	20	1	US-10-077-383-7	Sequence 7, Appl
170	20.2	0.7	25	1	US-11-060-756-45766	Sequence 45766, A	243	16.8	0.6	20	1	US-10-077-383-8	Sequence 8, Appl
171	20.2	0.7	25	1	US-11-060-756-45769	Sequence 45769, A	244	16.8	0.6	20	1	US-10-112-653-235	Sequence 235, App
172	20.2	0.7	25	1	US-11-060-756-45780	Sequence 45780, A	c 245	16.8	0.6	20	1	US-10-112-653-248	Sequence 248, App
173	20.2	0.7	25	1	US-11-060-756-45781	Sequence 45781, A	c 246	16.8	0.6	20	1	US-10-112-653-507	Sequence 507, App
174	20.2	0.7	25	1	US-11-060-756-45782	Sequence 45782, A	247	16.8	0.6	20	1	US-10-112-653-508	Sequence 508, App
175	20.2	0.7	25	1	US-11-060-756-45795	Sequence 45795, A	c 248	16.8	0.6	20	1	US-10-305-810-19	Sequence 19, Appl
176	20.2	0.7	25	1	US-11-060-756-45795	Sequence 45795, A	c 249	16.8	0.6	20	1	US-10-314-578-243	Sequence 243, App
177	19.4	0.7	22	1	US-10-092-900A-737	Sequence 737, App	c 250	16.8	0.6	20	1	US-10-314-578-257	Sequence 257, App
178	19	0.7	19	1	US-10-761-557-2	Sequence 2, Appl	c 251	16.8	0.6	20	1	US-10-314-578-531	Sequence 531, App
179	19	0.7	19	1	US-10-761-557-3	Sequence 3, Appl	252	16.8	0.6	20	1	US-10-314-578-531	Sequence 531, App



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US-10-384-245-238/c
; Sequence 238, Application US/10384245
; Publication No. US20040072191A1
; GENERAL INFORMATION:
; APPLICANT: Alex Chenchik
; TITLE OF INVENTION: Antisense RNA Standardizing Control
; FILE REFERENCE: CLON-087PRV
; CURRENT APPLICATION NUMBER: US/10/384,245
; CURRENT FILING DATE: 2003-03-07
; NUMBER OF SEQ ID NOS: 1090
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 238
; LENGTH: 80
; TYPE: DNA
; ORGANISM: Rat
US-10-384-245-238

Query Match          2.3%; Score 64.4; DB 1; Length 80;
Best Local Similarity 98.5%; Pred. No. 0.014;
Matches 65; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1909 GAGTCACCCATTACTGCAAGTCTGAGGAGACTTCACCCGGGACAGCACCTACAGTGAC 1968
Db      |||||||
74 GTGTCACCCATTACTGCAAGTCTGAGGAGACTTCACCCGGGACAGCACCTACAGTGAC 15

QY 1969 ACCAGC 1974
Db      |||||
14 ACCAGC 9

RESULT 3
US-09-908-975-26880
; Sequence 26880, Application US/09908975
; Publication No. US20030165843A1
; GENERAL INFORMATION:
; APPLICANT: SHOSHAN, Avi
; APPLICANT: WASSERMAN, Alon
; APPLICANT: MINTZ, Eli
; APPLICANT: FAIGLER, Simchon
; TITLE OF INVENTION: OLIGONUCLEOTIDE LIBRARY FOR DETECTING RNA TRANSCRIPTS AND SPLICE
; FILE REFERENCE: 36688-0005
; CURRENT APPLICATION NUMBER: US/09/908,975
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: US 60/287,724
; PRIOR FILING DATE: 2001-05-02
; PRIOR APPLICATION NUMBER: US 60/221,607
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 32337
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 26880
; LENGTH: 65
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-908-975-26880

Query Match          2.2%; Score 63.4; DB 1; Length 65;
Best Local Similarity 98.5%; Pred. No. 0.013;
Matches 64; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1537 AACGAGTTCTGCTTATCATCTTCCTGGCCCTGGGTGCTCATCTTTGCCACCATG 1596
Db      |||||||
1 AACGAGTTCTGCTTATCATCTTCCTGGCCCTGGGTGCTCATCTTTGCCACCATG 60

QY 1597 ATCTA 1601
Db      |||||
61 ATCTA 65

RESULT 4
US-10-121-746-55
; Sequence 55, Application US/10121746
; Publication No. US20030036648A1
; GENERAL INFORMATION:
; APPLICANT: Miller, Andrew P.
; APPLICANT: Curran, Mark Edward
; APPLICANT: Hu, Ping
; APPLICANT: Rutter, Marc
; APPLICANT: Wang, Jian-Wang
; TITLE OF INVENTION: Novel Human Potassium Channels
; FILE REFERENCE: SEQ-15P
; CURRENT APPLICATION NUMBER: US/10/121,746
; CURRENT FILING DATE: 2002-04-11
; PRIOR APPLICATION NUMBER: US/09/336,643A
; PRIOR FILING DATE: 1999-06-18
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/076,687
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/116,448
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-01-19
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: PCT/US99/03826
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-02-22
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 55
; LENGTH: 45
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-10-121-746-55

Query Match          1.4%; Score 40.2; DB 1; Length 45;
Best Local Similarity 93.3%; Pred. No. 2.2;
Matches 42; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1684 TGGTGGGCTGGTCACCATGACACGCTTGCTATGGGACATG 1728
Db      |||||||
1 TGGTGGGCGAGTGGTCACCATGACACGCTTGCTATGGGACATG 45

RESULT 5
US-10-976-644-55
; Sequence 55, Application US/10976644
; Publication No. US20050112662A1
; GENERAL INFORMATION:
; APPLICANT: Miller, Andrew P.
; APPLICANT: Curran, Mark Edward
; APPLICANT: Hu, Ping
; APPLICANT: Rutter, Marc
; APPLICANT: Wang, Jian-Wang
; TITLE OF INVENTION: Novel Human Potassium Channels
; FILE REFERENCE: SEQ-15P
; CURRENT APPLICATION NUMBER: US/10/976,644
; CURRENT FILING DATE: 2004-10-29
; PRIOR APPLICATION NUMBER: US/09/336,643
; PRIOR FILING DATE: 1999-06-18
; PRIOR APPLICATION NUMBER: 60/076,687
; PRIOR FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: 60/116,448
; PRIOR FILING DATE: 1999-01-19
; PRIOR APPLICATION NUMBER: PCT/US99/03826
; PRIOR FILING DATE: 1999-02-22
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 55
; LENGTH: 45
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-10-976-644-55

Query Match          1.4%; Score 40.2; DB 1; Length 45;
Best Local Similarity 93.3%; Pred. No. 2.2;
Matches 42; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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OY 1684 TGGTGGCTGTGGTCACCATGACACCGCTTGGCTATGGGACATG 1728  
|||||  
Db 1 TGGTGGCAGTGGTCACCATGACACCGCTTGGCTATGGGACATG 45

## RESULT 6

US-10-976-647-55  
; Sequence 55, Application US/10976647  
; Publication No. US20050112663A1  
; GENERAL INFORMATION:  
; APPLICANT: Miller, Andrew P.  
; APPLICANT: Curran, Mark Edward  
; APPLICANT: Hu, Ping  
; APPLICANT: Rutter, Marc  
; APPLICANT: Wang, Jian-Wang  
; TITLE OF INVENTION: Novel Human Potassium Channels  
; FILE REFERENCE: SEQ-15P  
; CURRENT APPLICATION NUMBER: US/10/976,647  
; CURRENT FILING DATE: 2004-10-29  
; PRIOR APPLICATION NUMBER: CURRENT APPLICATION NUMBER: US/09/336,643  
; PRIOR FILING DATE: CURRENT FILING DATE: 1999-06-18  
; PRIOR APPLICATION NUMBER: 60/076,687  
; PRIOR FILING DATE: 1998-08-07  
; PRIOR APPLICATION NUMBER: 60/116,448  
; PRIOR FILING DATE: 1999-01-19  
; PRIOR APPLICATION NUMBER: PCT/US99/03826  
; PRIOR FILING DATE: 1999-02-22  
; NUMBER OF SEQ ID NOS: 87  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 55  
; LENGTH: 45  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Primer  
US-10-976-647-55

Query Match 1.4%; Score 40.2; DB 1; Length 45;  
Best Local Similarity 93.3%; Pred. No. 2.2;  
Matches 42; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 1684 TGGTGGCTGTGGTCACCATGACACCGCTTGGCTATGGGACATG 1728  
|||||  
Db 1 TGGTGGCAGTGGTCACCATGACACCGCTTGGCTATGGGACATG 45

## RESULT 7

US-10-121-746-49  
; Sequence 49, Application US/10121746  
; Publication No. US20030036648A1  
; GENERAL INFORMATION:  
; APPLICANT: Miller, Andrew P.  
; APPLICANT: Curran, Mark Edward  
; APPLICANT: Hu, Ping  
; APPLICANT: Rutter, Marc  
; APPLICANT: Wang, Jian-Wang  
; TITLE OF INVENTION: No. US20030036648A1 Human Potassium Channels  
; FILE REFERENCE: SEQ-15P  
; CURRENT APPLICATION NUMBER: US/10/121,746  
; CURRENT FILING DATE: 2002-04-11  
; PRIOR APPLICATION NUMBER: US/09/336,643A  
; PRIOR FILING DATE: 1999-06-18  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/076,687  
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-08-07  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/116,448  
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-01-19  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: PCT/US99/03826  
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-02-22  
; NUMBER OF SEQ ID NOS: 87  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 49  
; LENGTH: 45

; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Primer  
US-10-121-746-49

Query Match 1.4%; Score 38.6; DB 1; Length 45;  
Best Local Similarity 91.1%; Pred. No. 3.3;  
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 1684 TGGTGGCTGTGGTCACCATGACACCGCTTGGCTATGGGACATG 1728  
|||||  
Db 1 TGGTGGCTGTGGTCACCATGACAACTGTGGCTATGGGACATG 45

## RESULT 8

US-10-121-746-53  
; Sequence 53, Application US/10121746  
; Publication No. US20030036648A1  
; GENERAL INFORMATION:  
; APPLICANT: Miller, Andrew P.  
; APPLICANT: Curran, Mark Edward  
; APPLICANT: Hu, Ping  
; APPLICANT: Rutter, Marc  
; APPLICANT: Wang, Jian-Wang  
; TITLE OF INVENTION: No. US20030036648A1 Human Potassium Channels  
; FILE REFERENCE: SEQ-15P  
; CURRENT APPLICATION NUMBER: US/10/121,746  
; CURRENT FILING DATE: 2002-04-11  
; PRIOR APPLICATION NUMBER: US/09/336,643A  
; PRIOR FILING DATE: 1999-06-18  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/076,687  
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-08-07  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/116,448  
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-01-19  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: PCT/US99/03826  
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-02-22  
; NUMBER OF SEQ ID NOS: 87  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 53  
; LENGTH: 45  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Primer  
US-10-121-746-53

Query Match 1.4%; Score 38.6; DB 1; Length 45;  
Best Local Similarity 91.1%; Pred. No. 3.3;  
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 1684 TGGTGGCTGTGGTCACCATGACACCGCTTGGCTATGGGACATG 1728  
|||||  
Db 1 TGGTGGCTGTGGTCACCATGACACCGCTTGGCTATGGGACATG 45

## RESULT 9

US-10-121-746-58  
; Sequence 58, Application US/10121746  
; Publication No. US20030036648A1  
; GENERAL INFORMATION:  
; APPLICANT: Miller, Andrew P.  
; APPLICANT: Curran, Mark Edward  
; APPLICANT: Hu, Ping  
; APPLICANT: Rutter, Marc  
; APPLICANT: Wang, Jian-Wang  
; TITLE OF INVENTION: No. US20030036648A1 Human Potassium Channels  
; FILE REFERENCE: SEQ-15P  
; CURRENT APPLICATION NUMBER: US/10/121,746  
; CURRENT FILING DATE: 2002-04-11  
; PRIOR APPLICATION NUMBER: US/09/336,643A  
; PRIOR FILING DATE: 1999-06-18  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/076,687

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; PRIOR FILING DATE: EARLIER FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/116,448
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-01-19
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: PCT/US99/03826
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-02-22
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 58
; LENGTH: 45
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-10-121-746-58
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Query Match 1.4%; Score 38.6; DB 1; Length 45;
Best Local Similarity 91.1%; Pred. No. 3.3;
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
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QY 1684 TGGTGGGCTGTGGTCACCATGACACGCTTGGCTATGGGACATG 1728
|||||
Db 1 TGGTGGGCTGTGGTCACCATGACAACTGTGGCTATGGGACATG 45
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RESULT 10
US-10-976-644-49
; Sequence 49, Application US/10976644
; Publication No. US20050112662A1
; GENERAL INFORMATION:
; APPLICANT: Miller, Andrew P.
; APPLICANT: Curran, Mark Edward
; APPLICANT: Hu, Ping
; APPLICANT: Rutter, Marc
; APPLICANT: Wang, Jian-Wang
; TITLE OF INVENTION: Novel Human Potassium Channels
; FILE REFERENCE: SEQ-15P
; CURRENT APPLICATION NUMBER: US/10/976,644
; PRIOR FILING DATE: 2004-10-29
; PRIOR APPLICATION NUMBER: US/09/336,643
; PRIOR FILING DATE: 1999-06-18
; PRIOR APPLICATION NUMBER: 60/076,687
; PRIOR FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: 60/116,448
; PRIOR FILING DATE: 1999-01-19
; PRIOR APPLICATION NUMBER: PCT/US99/03826
; PRIOR FILING DATE: 1999-02-22
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 49
; LENGTH: 45
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-10-976-644-49
```

```
Query Match 1.4%; Score 38.6; DB 1; Length 45;
Best Local Similarity 91.1%; Pred. No. 3.3;
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```
QY 1684 TGGTGGGCTGTGGTCACCATGACAACTGTGGCTATGGGACATG 1728
|||||
Db 1 TGGTGGGCTGTGGTCACCATGACAACTGTGGCTATGGGACATG 45
```

```
RESULT 11
US-10-976-644-53
; Sequence 53, Application US/10976644
; Publication No. US20050112662A1
; GENERAL INFORMATION:
; APPLICANT: Miller, Andrew P.
; APPLICANT: Curran, Mark Edward
; APPLICANT: Hu, Ping
```

```
; APPLICANT: Rutter, Marc
; APPLICANT: Wang, Jian-Wang
; TITLE OF INVENTION: Novel Human Potassium Channels
; FILE REFERENCE: SEQ-15P
; CURRENT APPLICATION NUMBER: US/10/976,644
; CURRENT FILING DATE: 2004-10-29
; PRIOR APPLICATION NUMBER: US/09/336,643
; PRIOR FILING DATE: 1999-06-18
; PRIOR APPLICATION NUMBER: 60/076,687
; PRIOR FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: 60/116,448
; PRIOR FILING DATE: 1999-01-19
; PRIOR APPLICATION NUMBER: PCT/US99/03826
; PRIOR FILING DATE: 1999-02-22
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 53
; LENGTH: 45
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-10-976-644-53
```

```
Query Match 1.4%; Score 38.6; DB 1; Length 45;
Best Local Similarity 91.1%; Pred. No. 3.3;
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```
QY 1684 TGGTGGGCTGTGGTCACCATGACACGCTTGGCTATGGGACATG 1728
|||||
Db 1 TGGTGGGCTGTGGTCACCATGACACCTGTGGCTATGGGACATG 45
```

```
RESULT 12
US-10-976-644-58
; Sequence 58, Application US/10976644
; Publication No. US20050112662A1
; GENERAL INFORMATION:
; APPLICANT: Miller, Andrew P.
; APPLICANT: Curran, Mark Edward
; APPLICANT: Hu, Ping
; APPLICANT: Rutter, Marc
; APPLICANT: Wang, Jian-Wang
; TITLE OF INVENTION: Novel Human Potassium Channels
; FILE REFERENCE: SEQ-15P
; CURRENT APPLICATION NUMBER: US/10/976,644
; CURRENT FILING DATE: 2004-10-29
; PRIOR APPLICATION NUMBER: US/09/336,643
; PRIOR FILING DATE: 1999-06-18
; PRIOR APPLICATION NUMBER: 60/076,687
; PRIOR FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: 60/116,448
; PRIOR FILING DATE: 1999-01-19
; PRIOR APPLICATION NUMBER: PCT/US99/03826
; PRIOR FILING DATE: 1999-02-22
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 58
; LENGTH: 45
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-10-976-644-58
```

```
Query Match 1.4%; Score 38.6; DB 1; Length 45;
Best Local Similarity 91.1%; Pred. No. 3.3;
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```
QY 1684 TGGTGGGCTGTGGTCACCATGACAACTGTGGCTATGGGACATG 1728
|||||
Db 1 TGGTGGGCTGTGGTCACCATGACAACTGTGGCTATGGGACATG 45
```



```
RESULT 13
US-10-976-647-49
; Sequence 49, Application US/10976647
; Publication No. US20050112663A1
; GENERAL INFORMATION:
; APPLICANT: Miller, Andrew P.
; APPLICANT: Curran, Mark Edward
; APPLICANT: Hu, Ping
; APPLICANT: Rutter, Marc
; APPLICANT: Wang, Jian-Wang
; TITLE OF INVENTION: Novel Human Potassium Channels
; FILE REFERENCE: SEQ-15P
; CURRENT APPLICATION NUMBER: US/10/976,647
; CURRENT FILING DATE: 2004-10-29
; PRIOR FILING DATE: CURRENT FILING DATE:1999-06-18
; PRIOR APPLICATION NUMBER: US/09/336,643
; PRIOR FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: 60/076,687
; PRIOR FILING DATE: 1999-01-19
; PRIOR APPLICATION NUMBER: PCT/US99/03826
; PRIOR FILING DATE: 1999-02-22
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 49
; LENGTH: 45
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-10-976-647-49

Query Match      1.4%; Score 38.6; DB 1; Length 45;
Best Local Similarity 91.1%; Pred. No. 3.3;
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1684 TGGTGGGCTGTGGTCACCATGACAAACGCTTGCTATGGGACATG 1728
      |||||
Db 1 TGGTGGGCTGTGGTCACCATGACAAACGCTTGCTATGGGACATG 45

RESULT 14
US-10-976-647-53
; Sequence 53, Application US/10976647
; Publication No. US20050112663A1
; GENERAL INFORMATION:
; APPLICANT: Miller, Andrew P.
; APPLICANT: Curran, Mark Edward
; APPLICANT: Hu, Ping
; APPLICANT: Rutter, Marc
; APPLICANT: Wang, Jian-Wang
; TITLE OF INVENTION: Novel Human Potassium Channels
; FILE REFERENCE: SEQ-15P
; CURRENT APPLICATION NUMBER: US/10/976,647
; CURRENT FILING DATE: 2004-10-29
; PRIOR FILING DATE: CURRENT FILING DATE:1999-06-18
; PRIOR APPLICATION NUMBER: US/09/336,643
; PRIOR FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: 60/076,687
; PRIOR FILING DATE: 1999-01-19
; PRIOR APPLICATION NUMBER: PCT/US99/03826
; PRIOR FILING DATE: 1999-02-22
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 53
; LENGTH: 45
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-10-976-647-53

Query Match      1.4%; Score 38.6; DB 1; Length 45;
Best Local Similarity 91.1%; Pred. No. 3.3;
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1684 TGGTGGGCTGTGGTCACCATGACAAACGCTTGCTATGGGACATG 1728
      |||||
Db 1 TGGTGGGCTGTGGTCACCATGACAAACGCTTGCTATGGGACATG 45

RESULT 15
US-10-976-647-58
; Sequence 58, Application US/10976647
; Publication No. US20050112663A1
; GENERAL INFORMATION:
; APPLICANT: Miller, Andrew P.
; APPLICANT: Curran, Mark Edward
; APPLICANT: Hu, Ping
; APPLICANT: Rutter, Marc
; APPLICANT: Wang, Jian-Wang
; TITLE OF INVENTION: Novel Human Potassium Channels
; FILE REFERENCE: SEQ-15P
; CURRENT APPLICATION NUMBER: US/10/976,647
; CURRENT FILING DATE: 2004-10-29
; PRIOR FILING DATE: CURRENT FILING DATE:1999-06-18
; PRIOR APPLICATION NUMBER: US/09/336,643
; PRIOR FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: 60/076,687
; PRIOR FILING DATE: 1999-01-19
; PRIOR APPLICATION NUMBER: PCT/US99/03826
; PRIOR FILING DATE: 1999-02-22
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 58
; LENGTH: 45
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-10-976-647-58

Query Match      1.4%; Score 38.6; DB 1; Length 45;
Best Local Similarity 91.1%; Pred. No. 3.3;
Matches 41; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1684 TGGTGGGCTGTGGTCACCATGACAAACGCTTGCTATGGGACATG 1728
      |||||
Db 1 TGGTGGGCTGTGGTCACCATGACAAACGCTTGCTATGGGACATG 45

RESULT 16
US-10-121-746-56
; Sequence 56, Application US/10121746
; Publication No. US20030036648A1
; GENERAL INFORMATION:
; APPLICANT: Miller, Andrew P.
; APPLICANT: Curran, Mark Edward
; APPLICANT: Hu, Ping
; APPLICANT: Rutter, Marc
; APPLICANT: Wang, Jian-Wang
; TITLE OF INVENTION: No. US20030036648A1el Human Potassium Channels
; FILE REFERENCE: SEQ-15P
; CURRENT APPLICATION NUMBER: US/10/121,746
; CURRENT FILING DATE: 2002-04-11
; PRIOR APPLICATION NUMBER: US/09/336,643A
; PRIOR FILING DATE: 1999-06-18
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/076,687
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/116,448
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-01-19
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: PCT/US99/03826
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-02-22
```

```
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 56
; LENGTH: 45
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-10-121-746-56

Query Match          1.3%; Score 37; DB 1; Length 45;
Best Local Similarity 88.9%; Pred. No. 4.8;
Matches 40; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1684 TGGTGGCGTGTGGTCACCATGACAAACGCTTGGCTATGGGACATG 1728
      |||||
Db 1 TGGTGGCGTGTGGTCACCATGACAAACGCTTGGCTATGGGACATG 45

RESULT 17
US-10-121-746-57
; Sequence 57, Application US/10121746
; Publication No. US2003036648A1
; GENERAL INFORMATION:
; APPLICANT: Miller, Andrew P.
; APPLICANT: Curran, Mark Edward
; APPLICANT: Hu, Ping
; APPLICANT: Rutter, Marc
; APPLICANT: Wang, Jian-Wang
; TITLE OF INVENTION: No. US2003036648A1el Human Potassium Channels
; FILE REFERENCE: SEQ-15P
; CURRENT APPLICATION NUMBER: US/10/121,746
; PRIOR FILING DATE: 2002-04-11
; PRIOR APPLICATION NUMBER: US/09/336,643A
; PRIOR FILING DATE: 1999-06-18
; PRIOR APPLICATION NUMBER: EARLIER FILING DATE: 1998-08-07
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-01-19
; PRIOR APPLICATION NUMBER: EARLIER FILING DATE: 1999-01-19
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-02-22
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 57
; LENGTH: 45
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-10-121-746-57

Query Match          1.3%; Score 37; DB 1; Length 45;
Best Local Similarity 88.9%; Pred. No. 4.8;
Matches 40; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1684 TGGTGGCGTGTGGTCACCATGACAAACGCTTGGCTATGGGACATG 1728
      |||||
Db 1 TGGTGGCGTGTGGTCACCATGACAAACGCTTGGCTATGGGACATG 45

RESULT 18
US-10-976-644-56
; Sequence 56, Application US/10976644
; Publication No. US20050112662A1
; GENERAL INFORMATION:
; APPLICANT: Miller, Andrew P.
; APPLICANT: Curran, Mark Edward
; APPLICANT: Hu, Ping
; APPLICANT: Rutter, Marc
; APPLICANT: Wang, Jian-Wang
; TITLE OF INVENTION: Novel Human Potassium Channels
; FILE REFERENCE: SEQ-15P
; CURRENT APPLICATION NUMBER: US/10/976,644
; PRIOR FILING DATE: 2004-10-29
; PRIOR APPLICATION NUMBER: US/09/336,643
; PRIOR FILING DATE: 1999-06-18
; PRIOR APPLICATION NUMBER: 60/076,687
; PRIOR FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: 60/116,448
; PRIOR FILING DATE: 1999-01-19
; PRIOR APPLICATION NUMBER: PCT/US99/03826
; PRIOR FILING DATE: 1999-02-22
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 57
; LENGTH: 45
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-10-976-644-57

Query Match          1.3%; Score 37; DB 1; Length 45;
Best Local Similarity 88.9%; Pred. No. 4.8;
Matches 40; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1684 TGGTGGCGTGTGGTCACCATGACAAACGCTTGGCTATGGGACATG 1728
      |||||
Db 1 TGGTGGCGTGTGGTCACCATGACAAACGCTTGGCTATGGGACATG 45

RESULT 20
US-10-976-647-56
; Sequence 56, Application US/10976647
; Publication No. US20050112663A1
```

GENERAL INFORMATION:  
; APPLICANT: Miller, Andrew P.  
; APPLICANT: Curran, Mark Edward  
; APPLICANT: Hu, Ping  
; APPLICANT: Rutter, Marc  
; APPLICANT: Wang, Jian-Wang  
; TITLE OF INVENTION: Novel Human Potassium Channels  
; FILE REFERENCE: SEQ-15P  
; CURRENT APPLICATION NUMBER: US/10/976,647  
; CURRENT FILING DATE: 2004-10-29  
; PRIOR APPLICATION NUMBER: CURRENT APPLICATION NUMBER: US/09/336,643  
; PRIOR FILING DATE: CURRENT FILING DATE: 1999-06-18  
; PRIOR APPLICATION NUMBER: 60/076,687  
; PRIOR FILING DATE: 1998-08-07  
; PRIOR APPLICATION NUMBER: 60/116,448  
; PRIOR FILING DATE: 1999-01-19  
; PRIOR APPLICATION NUMBER: PCT/US99/03826  
; PRIOR FILING DATE: 1999-02-22  
; NUMBER OF SEQ ID NOS: 87  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 56  
; LENGTH: 45  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Primer  
US-10-976-647-56

Query Match 1.3%; Score 37; DB 1; Length 45;  
Best Local Similarity 88.9%; Pred. No. 4.8;  
Matches 40; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1684 TGGTGGGCTGTGGTCACCATGACAAAGCGTTGGCTATGGGACATG 1728  
|||||  
Db 1 TGGTGGGCGTGTGGTCACCATGACGACCCCTGGGCTATGGAGACATG 45

RESULT 21  
US-10-976-647-57  
; Sequence 57, Application US/10976647  
; Publication No. US20050112663A1  
; GENERAL INFORMATION:  
; APPLICANT: Miller, Andrew P.  
; APPLICANT: Curran, Mark Edward  
; APPLICANT: Hu, Ping  
; APPLICANT: Rutter, Marc  
; APPLICANT: Wang, Jian-Wang  
; TITLE OF INVENTION: Novel Human Potassium Channels  
; FILE REFERENCE: SEQ-15P  
; CURRENT APPLICATION NUMBER: US/10/976,647  
; CURRENT FILING DATE: 2004-10-29  
; PRIOR APPLICATION NUMBER: CURRENT APPLICATION NUMBER: US/09/336,643  
; PRIOR FILING DATE: CURRENT FILING DATE: 1999-06-18  
; PRIOR APPLICATION NUMBER: 60/076,687  
; PRIOR FILING DATE: 1998-08-07  
; PRIOR APPLICATION NUMBER: 60/116,448  
; PRIOR FILING DATE: 1999-01-19  
; PRIOR APPLICATION NUMBER: PCT/US99/03826  
; PRIOR FILING DATE: 1999-02-22  
; NUMBER OF SEQ ID NOS: 87  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 57  
; LENGTH: 45  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Primer  
US-10-976-647-57

Query Match 1.3%; Score 37; DB 1; Length 45;  
Best Local Similarity 88.9%; Pred. No. 4.8;  
Matches 40; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1684 TGGTGGGCTGTGGTCACCATGACAAAGCGTTGGCTATGGGACATG 1728  
|||||  
Db 1 TGGTGGGCTGTGGTCACCATGACGACACTGGGCTACGGAGACATG 45

RESULT 22  
US-09-912-263-7  
; Sequence 7, Application US/09912263  
; Publication No. US20030039973A1  
; GENERAL INFORMATION:  
; APPLICANT: Gargill, Michele  
; APPLICANT: Ireland, James S.  
; APPLICANT: Lander, Eric S.  
; TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS  
; FILE REFERENCE: 2825.2017-001  
; CURRENT APPLICATION NUMBER: US/09/912,263  
; CURRENT FILING DATE: 2001-07-24  
; PRIOR APPLICATION NUMBER: US 60/220,315  
; PRIOR FILING DATE: 2000-07-24  
; NUMBER OF SEQ ID NOS: 552  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 7  
; LENGTH: 31  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-912-263-7

Query Match 1.0%; Score 27.4; DB 1; Length 31;  
Best Local Similarity 90.3%; Pred. No. 28;  
Matches 28; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1934 AGGAGACTTCACCCCGGACACGACCTACAG 1964  
|||||  
Db 1 AGGAGACTTCCCCCGGACACGACCTGCAG 31

RESULT 23  
US-10-057-467-12  
; Sequence 12, Application US/10057467  
; Publication No. US20030044767A1  
; GENERAL INFORMATION:  
; APPLICANT: NO. US20030044767Alan, Garry P.  
; Rothenberg, Michael S.  
; TITLE OF INVENTION: Methods for Screening for Transdominant  
; Effector Peptides and RNA Molecules  
; NUMBER OF SEQUENCES: 14  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Flehr, Hobbach, Test, Albritton & Herbert  
; STREET: 4 Embarcadero Center, Suite 3400  
; CITY: San Francisco  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94111-4187  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/10/057,467  
; FILING DATE: 22-Jan-2002  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/589,109  
; FILING DATE: 23-JAN-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Silva, Robin M.  
; REGISTRATION NUMBER: 38,304  
; REFERENCE/DOCKET NUMBER: A-64259/DJB/RMS  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415) 781-1989  
; TELEFAX: (415) 949-8711  
; INFORMATION FOR SEQ ID NO: 12:

```
;
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 30 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: unknown
;   TOPOLOGY: unknown
;   MOLECULE TYPE: cDNA
;   SEQUENCE DESCRIPTION: SEQ ID NO: 12:
US-10-057-467-12

Query Match          0.9%; Score 26.8; DB 1; Length 30;
Best Local Similarity 93.3%; Pred. No. 31;
Matches 28; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 273 C T C T C C T C C T C C C A C C A C C T C C T C C T C C T 302
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1 C C T C C T C C T C C T C C T C C T C C T C C T C C T C C T 30

RESULT 24
US-10-719-900-109019
; Sequence 109019, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 109019
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-109019

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 36;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1534 A C C A A C G A G T T C C T G C T G C T T A C A 1558
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1 A C C A A C G A G T T C C T G C T G C T T A C A 25

RESULT 25
US-10-719-956-234195
; Sequence 234195, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 234195
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-234195

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 36;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2796 C A G G T G G C C T G C T G A A G T C A G T T G A 2820
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
```

```
Db 1 C A G G T G G C C T G C T G A A G T C A G T T G A 25

RESULT 26
US-10-719-956-246393/c
; Sequence 246393, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 246393
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-246393

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 36;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 463 A A A A C A T G T C T G A A G G A G G A T G G 487
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 25 A A A A C A T G T C T G A A G G A G G A T G G 1

RESULT 27
US-10-719-956-257596/c
; Sequence 257596, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 257596
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-257596

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 36;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 671 G G G G C T G T C A G T T C T C T T T G A T C G 695
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 25 G G G G C T G T C A G T T C T C T T T G A T C G 1

RESULT 28
US-10-719-956-394044/c
; Sequence 394044, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
```

; NUMBER OF SEQ ID NOS: 699466  
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1  
; SEQ ID NO 394044  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Rattus norvegicus  
US-10-719-956-394044

Query Match 0.9%; Score 25; DB 1; Length 25;  
Best Local Similarity 100.0%; Pred. No. 36;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 412 GTGTGTCTCTCTCTACCGGGC 436  
|||||  
DB 25 GTGTGTCTCTCTCTACCGGGC 1

RESULT 29  
US-10-719-956-464039/c  
; Sequence 464039, Application US/10719956  
; Publication No. US20040146910A1  
; GENERAL INFORMATION:  
; APPLICANT: Xue Mei Zhou  
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat  
; FILE REFERENCE: 3527.1  
; CURRENT APPLICATION NUMBER: US/10/719,956  
; CURRENT FILING DATE: 2003-11-20  
; PRIOR APPLICATION NUMBER: 60/427,836  
; PRIOR FILING DATE: 2002 11 20  
; NUMBER OF SEQ ID NOS: 699466  
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1  
; SEQ ID NO 464039  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Rattus norvegicus  
US-10-719-956-464039

Query Match 0.9%; Score 25; DB 1; Length 25;  
Best Local Similarity 100.0%; Pred. No. 36;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 526 GCGGCACGCACATGACCTACC 550  
|||||  
DB 25 GCGGCACGCACATGACCTACC 1

RESULT 30  
US-10-719-956-491313  
; Sequence 491313, Application US/10719956  
; Publication No. US20040146910A1  
; GENERAL INFORMATION:  
; APPLICANT: Xue Mei Zhou  
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat  
; FILE REFERENCE: 3527.1  
; CURRENT APPLICATION NUMBER: US/10/719,956  
; CURRENT FILING DATE: 2003-11-20  
; PRIOR APPLICATION NUMBER: 60/427,836  
; PRIOR FILING DATE: 2002 11 20  
; NUMBER OF SEQ ID NOS: 699466  
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1  
; SEQ ID NO 491313  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Rattus norvegicus  
US-10-719-956-491313

Query Match 0.9%; Score 25; DB 1; Length 25;  
Best Local Similarity 100.0%; Pred. No. 36;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2812 GTCAGTTGAAGCAGCATGGCCCTT 2836  
|||||  
DB 1 GTCAGTTGAAGCAGCATGGCCCTT 25

RESULT 31  
US-10-719-956-576640/c  
; Sequence 576640, Application US/10719956  
; Publication No. US20040146910A1  
; GENERAL INFORMATION:  
; APPLICANT: Xue Mei Zhou  
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat  
; FILE REFERENCE: 3527.1  
; CURRENT APPLICATION NUMBER: US/10/719,956  
; CURRENT FILING DATE: 2003-11-20  
; PRIOR APPLICATION NUMBER: 60/427,836  
; PRIOR FILING DATE: 2002 11 20  
; NUMBER OF SEQ ID NOS: 699466  
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1  
; SEQ ID NO 576640  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Rattus norvegicus  
US-10-719-956-576640

Query Match 0.9%; Score 25; DB 1; Length 25;  
Best Local Similarity 100.0%; Pred. No. 36;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 451 AAGCTCCGTCCTCAAAACATGCTGA 475  
|||||  
DB 25 AAGCTCCGTCCTCAAAACATGCTGA 1

RESULT 32  
US-10-719-956-591190/c  
; Sequence 591190, Application US/10719956  
; Publication No. US20040146910A1  
; GENERAL INFORMATION:  
; APPLICANT: Xue Mei Zhou  
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat  
; FILE REFERENCE: 3527.1  
; CURRENT APPLICATION NUMBER: US/10/719,956  
; CURRENT FILING DATE: 2003-11-20  
; PRIOR APPLICATION NUMBER: 60/427,836  
; PRIOR FILING DATE: 2002 11 20  
; NUMBER OF SEQ ID NOS: 699466  
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1  
; SEQ ID NO 591190  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Rattus norvegicus  
US-10-719-956-591190

Query Match 0.9%; Score 25; DB 1; Length 25;  
Best Local Similarity 100.0%; Pred. No. 36;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 581 GCCTTGCTGGCTGCGGATCCCGA 605  
|||||  
DB 25 GCCTTGCTGGCTGCGGATCCCGA 1

RESULT 33  
US-10-719-956-621182/c  
; Sequence 621182, Application US/10719956  
; Publication No. US20040146910A1  
; GENERAL INFORMATION:  
; APPLICANT: Xue Mei Zhou  
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat  
; FILE REFERENCE: 3527.1  
; CURRENT APPLICATION NUMBER: US/10/719,956  
; CURRENT FILING DATE: 2003-11-20  
; PRIOR APPLICATION NUMBER: 60/427,836  
; PRIOR FILING DATE: 2002 11 20  
; NUMBER OF SEQ ID NOS: 699466

```
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 621182
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-621182
```

```
Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 36;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 508 AAGATCATCATCAAGCTGGCGGCA 532
      |||||||
Db 25 AAGATCATCATCAAGCTGGCGGCA 1
```

```
RESULT 34
US-10-719-956-625884/c
; Sequence 625884, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 625884
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-625884
```

```
Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 36;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 532 ACGCGACATGAGACCTACCGCAGCA 556
      |||||||
Db 25 ACGCGACATGAGACCTACCGCAGCA 1
```

```
RESULT 35
US-10-719-956-677476/c
; Sequence 677476, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 677476
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-677476
```

```
Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 36;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 497 AGCGCTCGGAGAAGATCATCAAA 521
      |||||||
Db 25 AGCGCTCGGAGAAGATCATCAAA 1
```

```
RESULT 36
US-10-719-956-678734/c
; Sequence 678734, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 678734
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-678734
```

```
Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 36;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 719 TGCTCAACTACTACCGCACGGSCAA 743
      |||||||
Db 25 TGCTCAACTACTACCGCACGGSCAA 1
```

```
RESULT 37
US-10-719-956-680770/c
; Sequence 680770, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 680770
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-680770
```

```
Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 36;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 440 AGTCGGGGAACAAGCCTCGTCCAA 464
      |||||||
Db 25 AGTCGGGGAACAAGCCTCGTCCAA 1
```

```
RESULT 38
US-10-719-956-90420/c
; Sequence 90420, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
```

; SEQ ID NO 90420  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Rattus norvegicus  
US-10-719-956-90420

Query Match 0.9%; Score 25; DB 1; Length 25;  
Best Local Similarity 100.0%; Pred. No. 36;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 436 CGCAAGTCGGGGAACAGCTCCGT 460  
|||||  
Db 25 CGCAAGTCGGGGAACAGCTCCGT 1

## RESULT 39

US-11-060-756-195333  
; Sequence 195333, Application US/11060756  
; Publication No. US20050221354A1  
; GENERAL INFORMATION:

; APPLICANT: Wyeth  
; APPLICANT: Mounts, William Martin  
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug  
; FILE REFERENCE: AM101083 (031896-042000)  
; CURRENT APPLICATION NUMBER: US/11/060,756  
; CURRENT FILING DATE: 2005-02-18  
; NUMBER OF SEQ ID NOS: 303284  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 195333  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: probe  
US-11-060-756-195333

Query Match 0.9%; Score 25; DB 1; Length 25;  
Best Local Similarity 100.0%; Pred. No. 36;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1529 CCAGCACCAACGAGTTCCTGCTGCT 1553  
|||||  
Db 1 CCAGCACCAACGAGTTCCTGCTGCT 25

## RESULT 40

US-11-060-756-45763  
; Sequence 45763, Application US/11060756  
; Publication No. US20050221354A1  
; GENERAL INFORMATION:

; APPLICANT: Wyeth  
; APPLICANT: Mounts, William Martin  
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug  
; FILE REFERENCE: AM101083 (031896-042000)  
; CURRENT APPLICATION NUMBER: US/11/060,756  
; CURRENT FILING DATE: 2005-02-18  
; NUMBER OF SEQ ID NOS: 303284  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 45763  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: probe  
US-11-060-756-45763

Query Match 0.9%; Score 25; DB 1; Length 25;  
Best Local Similarity 100.0%; Pred. No. 36;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1646 ATGACCACACCGACTTCAAGACAT 1670  
|||||  
Db 1 ATGACCACACCGACTTCAAGACAT 25

## RESULT 41

US-11-060-756-45765  
; Sequence 45765, Application US/11060756  
; Publication No. US20050221354A1  
; GENERAL INFORMATION:

; APPLICANT: Wyeth  
; APPLICANT: Mounts, William Martin  
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug  
; FILE REFERENCE: AM101083 (031896-042000)  
; CURRENT APPLICATION NUMBER: US/11/060,756  
; CURRENT FILING DATE: 2005-02-18  
; NUMBER OF SEQ ID NOS: 303284  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 45765  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: probe  
US-11-060-756-45765

Query Match 0.9%; Score 25; DB 1; Length 25;  
Best Local Similarity 100.0%; Pred. No. 36;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1645 AATGACCACCGACTTCAAGAACA 1669  
|||||  
Db 1 AATGACCACCGACTTCAAGAACA 25

## RESULT 42

US-11-060-756-45775  
; Sequence 45775, Application US/11060756  
; Publication No. US20050221354A1  
; GENERAL INFORMATION:

; APPLICANT: Wyeth  
; APPLICANT: Mounts, William Martin  
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug  
; FILE REFERENCE: AM101083 (031896-042000)  
; CURRENT APPLICATION NUMBER: US/11/060,756  
; CURRENT FILING DATE: 2005-02-18  
; NUMBER OF SEQ ID NOS: 303284  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 45775  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: probe  
US-11-060-756-45775

Query Match 0.9%; Score 25; DB 1; Length 25;  
Best Local Similarity 100.0%; Pred. No. 36;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1647 TGACCACACCGACTTCAAGAATC 1671  
|||||  
Db 1 TGACCACACCGACTTCAAGAATC 25

## RESULT 43

US-10-351-934A-19  
; Sequence 19, Application US/10351934A  
; Publication No. US20030170705A1  
; GENERAL INFORMATION:

; APPLICANT: Boreal Plant Breeding Ltd  
; TITLE OF INVENTION: Method and test kit for Demonstrating Genetic Identity  
; FILE REFERENCE: A1435PUS  
; CURRENT APPLICATION NUMBER: US/10/351,934A  
; CURRENT FILING DATE: 2003-04-17  
; PRIOR APPLICATION NUMBER: FI 20020176  
; PRIOR FILING DATE: 2002-01-30  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 19

```
; LENGTH: 28
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: (CTC)9C
US-10-351-934A-19

Query Match          0.9%; Score 24.8; DB 1; Length 28;
Best Local Similarity 92.9%; Pred. No. 45;
Matches 26; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 274 CTCCTCTCTCTCCACACCTCTCTCTCC 301
    |||||
Db 1 CTCCTCTCTCTCTCTCTCTCTCTCTCTCC 28

RESULT 44
US-11-060-756-45755
; Sequence 45755, Application US/11060756
; Publication No. US2005021354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 45755
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-45755

Query Match          0.8%; Score 24; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 45;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1645 AATGACCACACCGACTTCAAGAAC 1668
    |||||
Db 2 AATGACCACACCGACTTCAAGAAC 25

RESULT 45
US-11-060-756-45793
; Sequence 45793, Application US/11060756
; Publication No. US2005021354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 45793
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-45793

Query Match          0.8%; Score 24; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 45;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1578 GCTCATCTTTGCCACCATGATCTA 1601
    |||||
Db 1 GCTCATCTTTGCCACCATGATCTA 24
```

```
RESULT 46
US-10-820-487-13/c
; Sequence 13, Application US/10820487
; Publication No. US2005004160A1
; GENERAL INFORMATION:
; APPLICANT: WHITTEN, Jeffrey P.
; APPLICANT: SCHWAEBE, Michael
; APPLICANT: MORAN, Terrance
; TITLE OF INVENTION: HETEROCYCLIC SUBSTITUTED
; FILE REFERENCE: 1,4-DIHYDRO-4-OXO-1,8-NAPHTHYRIDINE ANALOGS
; CURRENT APPLICATION NUMBER: US/10/820,487
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/461,205
; PRIOR FILING DATE: 2003-04-07
; PRIOR APPLICATION NUMBER: US 60/519,569
; PRIOR FILING DATE: 2003-11-12
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 27
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-820-487-13

Query Match          0.8%; Score 23.8; DB 1; Length 27;
Best Local Similarity 92.6%; Pred. No. 53;
Matches 25; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 276 CCTCTCTCTCCACACCTCTCTCTCTCT 302
    |||||
Db 27 CCTCTCTCTCCACCTCTCTCTCTCTCT 1

RESULT 47
US-10-903-975-13/c
; Sequence 13, Application US/10903975
; Publication No. US20050085468A1
; GENERAL INFORMATION:
; APPLICANT: WHITTEN, Jeffrey P.
; APPLICANT: SCHWAEBE, Michael
; APPLICANT: SIDDIQUI-JAIN, Adam
; APPLICANT: MORAN, Terrance
; TITLE OF INVENTION: SUBSTITUTED QUINOBENZOXAZINE ANALOGS
; FILE REFERENCE: 53232001120
; CURRENT APPLICATION NUMBER: US/10/903,975
; CURRENT FILING DATE: 2004-07-30
; PRIOR APPLICATION NUMBER: US 10/821,243
; PRIOR FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/461,271
; PRIOR FILING DATE: 2003-04-07
; PRIOR APPLICATION NUMBER: US 60/463,171
; PRIOR FILING DATE: 2003-04-15
; PRIOR APPLICATION NUMBER: US 60/519,535
; PRIOR FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: US 60/532,727
; PRIOR FILING DATE: 2003-12-23
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 27
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-903-975-13

Query Match          0.8%; Score 23.8; DB 1; Length 27;
Best Local Similarity 92.6%; Pred. No. 53;
Matches 25; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 276 CCTCTCTCTCCACACCTCTCTCTCTCT 302
    |||||
Db 27 CCTCTCTCTCCACCTCTCTCTCTCTCT 1
```



RESULT 48  
US-10-645-471A-18/c  
; Sequence 18, Application US/10645471A  
; Publication No. US20040171022A1  
; GENERAL INFORMATION:  
; APPLICANT: Ebbinghaus, Scot W.  
; APPLICANT: Hurley, Laurence H.  
; APPLICANT: Siddiqui-Jain, Adam  
; APPLICANT: Memmott, Regan  
; TITLE OF INVENTION: METHODS FOR REGULATING TRANSCRIPTION BY  
; TITLE OF INVENTION: TARGETING QUADRUPLX DNA  
; FILE REFERENCE: 53232000500  
; CURRENT APPLICATION NUMBER: US/10/645,471A  
; PRIOR FILING DATE: 2003-08-20  
; PRIOR APPLICATION NUMBER: 60/404,965  
; PRIOR FILING DATE: 2002-08-20  
; NUMBER OF SEQ ID NOS: 32  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 18  
; LENGTH: 28  
; TYPE: DNA  
; ORGANISM: Unknown  
; FEATURE:  
; OTHER INFORMATION: oligonucleotide  
US-10-645-471A-18

Query Match 0.8%; Score 23.8; DB 1; Length 28;  
Best Local Similarity 92.6%; Pred. No. 57; Mismatches 2; Indels 0; Gaps 0;  
Matches 25; Conservative 0;  
QY 276 CCTCTCTCTCCACCTCTCTCTCTCT 302  
DB 27 CCTCTCTCTCCACCTCTCTCTCTCT 1

RESULT 49  
US-10-660-897-14/c  
; Sequence 14, Application US/10660897  
; Publication No. US20040115706A1  
; GENERAL INFORMATION:  
; APPLICANT: Jin, Cheng  
; APPLICANT: Chung, Mary  
; APPLICANT: Siddiqui-Jain, Adam  
; APPLICANT: Whitten, Jeffrey  
; APPLICANT: Farrell, Thomas  
; TITLE OF INVENTION: HIGH-THROUGHPUT METHODS FOR IDENTIFYING  
; TITLE OF INVENTION: QUADRUPLX FORMING NUCLEIC ACIDS AND MODULATORS THEREOF  
; FILE REFERENCE: 53232000800  
; CURRENT APPLICATION NUMBER: US/10/660,897  
; CURRENT FILING DATE: 2003-09-11  
; PRIOR APPLICATION NUMBER: 60/410,475  
; PRIOR FILING DATE: 2002-09-12  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 14  
; LENGTH: 28  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: quadruplex forming sequence  
US-10-660-897-14

Query Match 0.8%; Score 23.8; DB 1; Length 28;  
Best Local Similarity 92.6%; Pred. No. 57; Mismatches 2; Indels 0; Gaps 0;  
Matches 25; Conservative 0;  
QY 276 CCTCTCTCTCCACCTCTCTCTCTCT 302  
DB 27 CCTCTCTCTCCACCTCTCTCTCTCT 1

RESULT 50  
US-10-719-900-109020  
; Sequence 109020, Application US/10719900  
; Publication No. US20050026164A1  
; GENERAL INFORMATION:  
; APPLICANT: Xue Mei Zhou  
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse  
; FILE REFERENCE: 3528.1  
; CURRENT APPLICATION NUMBER: US/10/719,900  
; CURRENT FILING DATE: 2003-11-20  
; PRIOR APPLICATION NUMBER: 60/427,808  
; PRIOR FILING DATE: 2002-11-20  
; NUMBER OF SEQ ID NOS: 982914  
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1  
; SEQ ID NO 109020  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-10-719-900-109020

Query Match 0.8%; Score 23.4; DB 1; Length 25;  
Best Local Similarity 96.0%; Pred. No. 52; Mismatches 24; Conservative 0; Indels 0; Gaps 0;  
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1534 ACCAACGAGTTCTGCTGCTTATCA 1558  
DB 1 ACCAACGAGTTCTGCTGCTTATCA 25

RESULT 51  
US-10-719-900-168808  
; Sequence 168808, Application US/10719900  
; Publication No. US20050026164A1  
; GENERAL INFORMATION:  
; APPLICANT: Xue Mei Zhou  
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse  
; FILE REFERENCE: 3528.1  
; CURRENT APPLICATION NUMBER: US/10/719,900  
; CURRENT FILING DATE: 2003-11-20  
; PRIOR APPLICATION NUMBER: 60/427,808  
; PRIOR FILING DATE: 2002-11-20  
; NUMBER OF SEQ ID NOS: 982914  
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1  
; SEQ ID NO 168808  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-10-719-900-168808

Query Match 0.8%; Score 23.4; DB 1; Length 25;  
Best Local Similarity 96.0%; Pred. No. 52; Mismatches 24; Conservative 0; Indels 0; Gaps 0;  
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 2794 AGCAGTGCCTGCTGAAGTCAGTT 2818  
DB 1 AGCAGTGCCTGCTGAAGTCAGTT 25

RESULT 52  
US-10-719-900-204524  
; Sequence 204524, Application US/10719900  
; Publication No. US20050026164A1  
; GENERAL INFORMATION:  
; APPLICANT: Xue Mei Zhou  
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse  
; FILE REFERENCE: 3528.1  
; CURRENT APPLICATION NUMBER: US/10/719,900  
; CURRENT FILING DATE: 2003-11-20  
; PRIOR APPLICATION NUMBER: 60/427,808  
; PRIOR FILING DATE: 2002-11-20  
; NUMBER OF SEQ ID NOS: 982914  
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1  
; SEQ ID NO 204524

```
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-204524

Query Match      0.8%; Score 23.4; DB 1; Length 25;
Best Local Similarity 96.0%; Pred. No. 52;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2797 AGGTGGCCTGCTGAAGTCAGTTGAA 2821
Db 1 AGGTGGCCTGTTGAAGTCAGTTGAA 25

RESULT 53
US-10-719-900-348245
; Sequence 348245, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 348245
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-348245

Query Match      0.8%; Score 23.4; DB 1; Length 25;
Best Local Similarity 96.0%; Pred. No. 52;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2787 CCTGCAGCAGGTGGCTGCTGAA 2811
Db 1 CCTGCAGCAGGTGGCTGCTGAA 25

RESULT 54
US-10-719-900-383132
; Sequence 383132, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 383132
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-383132

Query Match      0.8%; Score 23.4; DB 1; Length 25;
Best Local Similarity 96.0%; Pred. No. 52;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2789 CTGCCAGCAGGTGGCTGCTGAA 2813
Db 1 CTGCCAGCAGGTGGCTGCTGAA 25

RESULT 55
US-10-719-900-432370
; Sequence 432370, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 432370
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-432370

Query Match      0.8%; Score 23.4; DB 1; Length 25;
Best Local Similarity 96.0%; Pred. No. 52;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2809 GAAGTCAGTTGAAGCAGCAGTTGCC 2833
Db 1 GAAGTCAGTTGAAGCAGCAGTTGCC 25

RESULT 56
US-10-719-956-234194
; Sequence 234194, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 234194
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-234194

Query Match      0.8%; Score 23.4; DB 1; Length 25;
Best Local Similarity 96.0%; Pred. No. 52;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2796 CAGGTGGCCTGCTGAAGTCAGTTGA 2820
Db 1 CAGGTGGCCTGCAGAGAAGTCAGTTGA 25

RESULT 57
US-10-719-956-246392/c
; Sequence 246392, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 246392
; LENGTH: 25
```

```
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-246392

Query Match
Best Local Similarity 0.8%; Score 23.4; DB 1; Length 25;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 463 AAACATGCTCTGAAGAGGAGATGG 487
|||||
Db 25 AAACATGCTCTGAGGAGGATGG 1

RESULT 58
US-10-719-956-257597/c
; Sequence 257597, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 257597
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-257597

Query Match
Best Local Similarity 0.8%; Score 23.4; DB 1; Length 25;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 671 GGGCTGTGAGTCTCTTTTGTATCG 695
|||||
Db 25 GGGCTGTGAGTCTCTTTGTATCG 1

RESULT 59
US-10-719-956-394045/c
; Sequence 394045, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 394045
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-394045

Query Match
Best Local Similarity 0.8%; Score 23.4; DB 1; Length 25;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 412 GTGTGTCTCTCTCTACCGGGC 436
|||||
Db 25 GTGTGTCTCTCTACCGGGC 1

RESULT 60
US-10-719-956-464038/c
; Sequence 464038, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 464038
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-464038

Query Match
Best Local Similarity 0.8%; Score 23.4; DB 1; Length 25;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 526 GCGGCGCGGACATGAGACCTTACC 550
|||||
Db 25 GCGGCGCGGACATGAGACCTTACC 1

RESULT 61
US-10-719-956-491314
; Sequence 491314, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 491314
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-491314

Query Match
Best Local Similarity 0.8%; Score 23.4; DB 1; Length 25;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2812 GTCAGTTGAAGCGCAGATTGCCCTT 2836
|||||
Db 1 GTCAGTTGAAGCGCAGATTGCCCTT 25

RESULT 62
US-10-719-956-576639/c
; Sequence 576639, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 576639
; LENGTH: 25
; TYPE: DNA
```

```
; ORGANISM: Rattus norvegicus
US-10-719-956-576639

Query Match          0.8%; Score 23.4; DB 1; Length 25;
Best Local Similarity 96.0%; Pred. No. 52;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 451 AAGCCTCCGTCCTCAAAACATGCTGA 475
      |||||
Db 25 AAGCCTCCGTCCTCAAAACATGCTGA 1

RESULT 63
US-10-719-956-591191/c
; Sequence 591191, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 591191
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-591191

Query Match          0.8%; Score 23.4; DB 1; Length 25;
Best Local Similarity 96.0%; Pred. No. 52;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 581 GCCTTGCTGGCTGGCGGATCCCGA 605
      |||||
Db 25 GCCTTGCTGGCGGATCCCGA 1

RESULT 64
US-10-719-956-621181/c
; Sequence 621181, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 621181
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-621181

Query Match          0.8%; Score 23.4; DB 1; Length 25;
Best Local Similarity 96.0%; Pred. No. 52;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 508 AAGATCATCATCACGGGGCGGCA 532
      |||||
Db 25 AAGATCATCATCTACGTGGGCGGCA 1

RESULT 65
US-10-719-956-622205/c
; Sequence 622205, Application US/10719956
```

```
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 622205
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-622205

Query Match          0.8%; Score 23.4; DB 1; Length 25;
Best Local Similarity 96.0%; Pred. No. 52;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 827 CCTGCTGCTGGATGACCTACCGCA 851
      |||||
Db 25 CCTGCTGCTGGATGACCTACCGCA 1

RESULT 66
US-10-719-956-625883/c
; Sequence 625883, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 625883
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-625883

Query Match          0.8%; Score 23.4; DB 1; Length 25;
Best Local Similarity 96.0%; Pred. No. 52;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 532 ACGGCATCATGACCTACCGCA 556
      |||||
Db 25 ACGGCATCATGACCTACCGCA 1

RESULT 67
US-10-719-956-677475/c
; Sequence 677475, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 677475
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
```

US-10-719-956-677475

Query Match 0.8%; Score 23.4; DB 1; Length 25;  
Best Local Similarity 96.0%; Pred. No. 52;  
Matches 24; Conservative 0; Mismatches 1; Indels

Qy 497 AGCGTCGGAAGATCATCA 521  
|||  
Db 25 AGCGTCGGAAGATCATCA 1

RESULT 68

US-10-719-956-678733/c  
; Sequence 678733, Application US/10719956  
; Publication No. US20040146910A1

```

; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator
; SEQ ID NO 678733

```

Query Match 0.8%; Score 23.4; DB 1; Length 25;  
Best Local Similarity 96.0%;  
Pred. No. 52;  
Matches 24; Conservative 0; Mismatches 1; Indels

Qy 719 TGCTCACTACTACCGCACGGGCAA 743  
|||  
Db 25 TGCTCACTACTTCCGCACGGGCAA 1

## RESULT 69

US-10-719-956-680769/c  
; Sequence 680769, Application US/10719956  
; Publication No. US20040146910A1

```

GENERAL INFORMATION:
APPLICANT: Xue Mei Zhou
TITLE OF INVENTION: Methods of Genetic Analysis of Rat
FILE REFERENCE: 3527.1
CURRENT APPLICATION NUMBER: US/10/719,956
CURRENT FILING DATE: 2003-11-20
PRIOR APPLICATION NUMBER: 60/427,836
PRIOR FILING DATE: 2002 11 20
NUMBER OF SEQ ID NOS: 699466
SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
SEQ ID NO 680769

```

Query Match 0.8%; Score 23.4; DB 1; Length 25;  
Best Local Similarity 96.0%; Pred. No. 52;  
Matches 24; Conservative 0; Mismatches 1; Indels

Qy 440 AGTCGGGAACAAGCTCCGTCCAA 464  
|||  
Db 25 AGTCGGGAACATGCCTCCGTCCAA 1

RESULT 70

US-10-719-956-90419/c  
; Sequence 90419, Application US/10719956  
; Publication No. US20040146910A1

: GENERAL INFORMATION:

```

; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 90419
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-90419

```

Query Match	0.8%	Score 23.4;	DB 1;	Length 25;
Best Local Similarity	96.0%	Pred. No. 52;		
Matches 24;	Conservative	0;	Mismatches 1;	Indels 0;
Gaps				

QY 436 CGCAAGTCGGGGAACAAGCCTCCGT 460  
|||  
Db 25 CGCAAGTCGGGGTACAAGCCTCCGT 1

RESIII.T 71

US-11-060-756-116617  
; Sequence 116617, Application US/11060756  
; Publication No. US20050221354A1

```

; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays f
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: patentIn version 3.2
; SEQ ID NO 116617

```

Query Match	0.8%;	Score 23.4;	DB 1;	Length 25;
Best Local Similarity	96.0%;	Pred. No. 52;		
Matches 24;	Conservative	0;	Mismatches 1;	Indels 0;
				Gaps 0;

Qy	1979	CTGCCCGGAAGAGGGTATGGTCTGA	2003
Db	1	CTGCCCGGAAGAGGGTATGATCTGA	25

REFUGEE 72

US-11-060-756-131367  
; Sequence 131367, Application US/11060756  
; Publication No. US20050221354A1

```

; GENERAL INFORMATION:
;
; APPLICANT: Wyeth
;
; APPLICANT: Mounts, William Martin
;
; TITLE OF INVENTION: Nucleic Acid Arrays for
;
; TITLE OF INVENTION: Target Genes
;
; FILE REFERENCE: AM101083 (031896-042000)
;
; CURRENT APPLICATION NUMBER: US/11/060,756
;
; CURRENT FILING DATE: 2005-02-18
;
; NUMBER OF SEQ ID NOS: 303284
;
; SOFTWARE: PatentIn version 3.2
;
; SEQ ID NO 131367

```

LIFE: DNA  
ORGANISM: probe

US-11-060-756-131367

```
Query Match      0.8%; Score 23.4; DB 1; Length 25;
Best Local Similarity 96.0%; Pred. No. 52;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1910 AGTCACCCATTTACTGCAAGTCTGA 1934
|||||
Db 1 AGTCACCCATGTACTGCAAGTCTGA 25

RESULT 73
US-11-060-756-190298
; Sequence 190298, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 190298
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-190298

Query Match      0.8%; Score 23.4; DB 1; Length 25;
Best Local Similarity 96.0%; Pred. No. 52;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1983 CCGGGAAGAGCGGTATGTCGAGAGG 2007
|||||
Db 1 CCGGGAAGAGCGGTATGTCGAGAGG 25

RESULT 74
US-11-060-756-26091
; Sequence 26091, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 26091
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-26091

Query Match      0.8%; Score 23.4; DB 1; Length 25;
Best Local Similarity 96.0%; Pred. No. 52;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 712 GCCTATGTGCTCAACTACTACCGCA 736
|||||
Db 1 GCCTATGTGCTCAACTACTACCGCA 25

RESULT 75
US-11-060-756-279190
; Sequence 279190, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 279190
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-279190

Query Match      0.8%; Score 23.4; DB 1; Length 25;
Best Local Similarity 96.0%; Pred. No. 52;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1682 TCTGTGGGCTGTGTCACCATGAC 1706
|||||
Db 1 TCTGTGGGCGCGGTGCACCATGAC 25

RESULT 76
US-11-060-756-284778
; Sequence 284778, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 284778
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-284778

Query Match      0.8%; Score 23.4; DB 1; Length 25;
Best Local Similarity 96.0%; Pred. No. 52;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1912 TCACCCATTTACTGCAAGTCTGAGG 1936
|||||
Db 1 TCACCCATGTACTGCAAGTCTGAGG 25

RESULT 77
US-11-060-756-45756
; Sequence 45756, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 45756
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-45756
```

```
Query Match      0.8%; Score 23.4; DB 1; Length 25;
Best Local Similarity 96.0%; Pred. No. 52;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1643 GCAATGACCAACCGACTTCAAGAA 1667
      |||
Db 1 GTATGACCAACCGACTTCAAGAA 25

RESULT 78
US-11-060-756-45761
; Sequence 45761, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 45761
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-45761

Query Match      0.8%; Score 23.4; DB 1; Length 25;
Best Local Similarity 96.0%; Pred. No. 52;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1986 GGAAGAGGGTATGTCGAGAGGAAA 2010
      |||
Db 1 CGAAGAGGGTATGTCGAGAGGAAA 25

RESULT 81
US-11-060-756-45773
; Sequence 45773, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 45773
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-45773

Query Match      0.8%; Score 23.4; DB 1; Length 25;
Best Local Similarity 96.0%; Pred. No. 52;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1579 CTCATCTTTGCCACCATGATCTATT 1603
      |||
Db 1 CTCATCTTTGCCACCATGATCTACT 25

RESULT 82
US-11-060-756-45776
; Sequence 45776, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 45776
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-45776

Query Match      0.8%; Score 23.4; DB 1; Length 25;
Best Local Similarity 96.0%; Pred. No. 52;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1580 TCATCTTTGCCACCATGATCTATTA 1604
      |||
Db 1 TCATCTTTGCCACCATGATCTACTA 25

RESULT 80
US-11-060-756-45768
; Sequence 45768, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
```

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; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2003-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 278814
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-278814

Query Match 0.8%; Score 22.4; DB 1; Length 25;
Best Local Similarity 95.8%; Pred. No. 66;
Matches 23; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1639 CGGGCAATGACCACACCGACTTC 1662
Db 2 CGGGTAAATGACCACACCGACTTC 25

RESULT 86
US-11-060-756-45757
; Sequence 45757, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2003-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 45757
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-45757

Query Match 0.8%; Score 22.4; DB 1; Length 25;
Best Local Similarity 95.8%; Pred. No. 66;
Matches 23; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1581 CATCTTTGCCACCATGATCTATTA 1604
Db 1 CATCTTTGCCACCATGATCTACTA 24

RESULT 87
US-10-645-471A-15/c
; Sequence 15, Application US/10645471A
; Publication No. US20040171022A1
; GENERAL INFORMATION:
; APPLICANT: Ebbinghaus, Scot W.
; APPLICANT: Hurley, Laurence H.
; APPLICANT: Siddiqui-Jain, Adam
; APPLICANT: Memmott, Regan
; TITLE OF INVENTION: METHODS FOR REGULATING TRANSCRIPTION BY
; TITLE OF INVENTION: TARGETING QUADRUPLX DNA
; FILE REFERENCE: 53232000500
; CURRENT APPLICATION NUMBER: US/10/645,471A
; CURRENT FILING DATE: 2003-08-20
; PRIOR APPLICATION NUMBER: 60/404,965
; PRIOR FILING DATE: 2002-08-20
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 27
; TYPE: DNA
; ORGANISM: Unknown

; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2003-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 45777
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-45777

Query Match 0.8%; Score 23.4; DB 1; Length 25;
Best Local Similarity 96.0%; Pred. No. 52;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1988 AAGAGGTATGTCGAGAGAAACG 2012
Db 1 AAGAGGTATGTCGAGAGAAACG 25

RESULT 84
US-10-719-900-259068/c
; Sequence 259068, Application US/10719900
; Publication No. US2005026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002.11.20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 259068
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-259068

Query Match 0.8%; Score 22.4; DB 1; Length 25;
Best Local Similarity 95.8%; Pred. No. 66;
Matches 23; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 509 AGATCATCATCAACGTGGCGGCA 532
Db 25 AGATCATCATCAACGTGGGTGGCA 2

RESULT 85
US-11-060-756-278814
; Sequence 278814, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
```



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;
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 12, 13, 14, 15
; OTHER INFORMATION: n = A, T, C or G
US-10-645-471A-7

Query Match          0.8%; Score 22.2; DB 1; Length 27;
Best Local Similarity 88.9%; Pred. No. 78;
Matches 24; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 272 GCCTCCTCTCTCCACCACTCTCTCC 298
Db 27 GCCTCCTCTCTCTCTCTCTCTCTCC 1

RESULT 88
US-10-660-897-10/c
; Sequence 10, Application US/10660897
; Publication No. US20040115706A1
; GENERAL INFORMATION:
; APPLICANT: Jin, Cheng
; APPLICANT: Chung, Mary
; APPLICANT: Siddiqui-Jain, Adam
; APPLICANT: Whitten, Jeffrey
; APPLICANT: Farrell, Thomas
; TITLE OF INVENTION: HIGH-THROUGHPUT METHODS FOR IDENTIFYING
; TITLE OF INVENTION: QUADRUPLIX FORMING NUCLEIC ACIDS AND MODULATORS THEREOF
; FILE REFERENCE: 532232000800
; CURRENT APPLICATION NUMBER: US/10/660,897
; PRIOR FILING DATE: 2003-09-11
; PRIOR APPLICATION NUMBER: 60/410,475
; PRIOR FILING DATE: 2002-09-12
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 27
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: quadruplex forming sequence
US-10-660-897-10

Query Match          0.8%; Score 22.2; DB 1; Length 27;
Best Local Similarity 88.9%; Pred. No. 78;
Matches 24; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 272 GCCTCCTCTCTCTCCACCACTCTCTCC 298
Db 27 GCCTCCTCTCTCTCTCTCTCTCTCC 1

RESULT 89
US-10-645-471A-7/c
; Sequence 7, Application US/10645471A
; Publication No. US20040171022A1
; GENERAL INFORMATION:
; APPLICANT: Ebbinghaus, Scot W.
; APPLICANT: Hurley, Laurence H.
; APPLICANT: Siddiqui-Jain, Adam
; APPLICANT: Memmott, Regan
; TITLE OF INVENTION: METHODS FOR REGULATING TRANSCRIPTION BY
; TITLE OF INVENTION: TARGETING QUADRUPLIX DNA
; FILE REFERENCE: 532232000500
; CURRENT APPLICATION NUMBER: US/10/645,471A
; PRIOR FILING DATE: 2003-08-20
; PRIOR APPLICATION NUMBER: 60/404,965
; PRIOR FILING DATE: 2002-08-20
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 26
; TYPE: DNA
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: oligonucleotide
```

```
;
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 12, 13, 14, 15
; OTHER INFORMATION: n = A, T, C or G
US-10-645-471A-7

Query Match          0.8%; Score 22; DB 1; Length 26;
Best Local Similarity 84.6%; Pred. No. 77;
Matches 22; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 276 CCTCTCTCTCCACCACTCTCTCTCC 301
Db 26 CCTCTCTCTCCNNNNCCCTCTCTCC 1

RESULT 90
US-10-719-900-168807
; Sequence 168807, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 168807
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-168807

Query Match          0.8%; Score 21.8; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 76;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2794 AGCAGGTGGCTCTGAGTCAGTT 2818
Db 1 AGCAGGTGGCTCTTGAAGTCAGTT 25

RESULT 91
US-10-719-900-204523
; Sequence 204523, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 204523
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-204523

Query Match          0.8%; Score 21.8; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 76;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2797 AGGTGGCTCTGAGTCAGTTGAA 2821
Db 1 AGGTGGCTCTTCAAGTCAGTTGAA 25
```

```
RESULT 92
US-10-719-900-348244
; Sequence 348244, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 348244
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-348244

Query Match      0.8%; Score 21.8; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 76;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2787 CCTGCGCAGCAGTGGCGCTGCTGAA 2811
Db 1 CCTGCGCAGCAGTGGCGCTGCTGAA 25

RESULT 93
US-10-719-900-357414
; Sequence 357414, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 357414
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-357414

Query Match      0.8%; Score 21.8; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 76;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2803 CCTGCTGAAGTCAGTTGAAGGCAG 2827
Db 1 CCTGTTGAAGTCAGTTGAAGGCAG 25

RESULT 94
US-10-719-900-383131
; Sequence 383131, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 383131
```

```
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-383131

Query Match      0.8%; Score 21.8; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 76;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2789 CTGCCAGCAGGTGGCTGCTGGAAGT 2813
Db 1 CTGCCAGCAGGTGGCTGCTGGAAGT 25

RESULT 95
US-10-719-900-432371
; Sequence 432371, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 432371
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-432371

Query Match      0.8%; Score 21.8; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 76;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2809 GAAGTCAGTTGAAGGCAGGATTCGC 2833
Db 1 GAAGTCAGTTGAAGGCAGGATTCGC 25

RESULT 96
US-10-719-956-200066
; Sequence 200066, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 200066
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-200066

Query Match      0.8%; Score 21.8; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 76;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1831 ATGTACTACTCCCTGGCTATGGCCA 1855
Db 1 ATGTACTACTTCACTGGCTATGGCCA 25

RESULT 97
```

```
US-10-719-956-570628
; Sequence 570628, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 570628
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-570628

Query Match      0.8%; Score 21.8; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 76;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1837 TACTCCTGGCTATGCCACGAGA 1861
Db 1 TATTCTGGCTATGCCACGAGA 25

RESULT 98
US-10-719-956-622206/c
; Sequence 622206, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 62206
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-622206

Query Match      0.8%; Score 21.8; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 76;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 827 CCTGCTGCTGGATGACCTACCGCA 851
Db 25 CCTGCTGCTGGAGACCTACGCA 1

RESULT 99
US-11-036-317-133942
; Sequence 133942, Application US/11036317
; Publication No. US20050214823A1
; GENERAL INFORMATION:
; APPLICANT: Williams, Alan
; APPLICANT: Blume, John
; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
; FILE REFERENCE: 3654.1
; CURRENT APPLICATION NUMBER: US/11/036,317
; CURRENT FILING DATE: 2005-01-13
; PRIOR APPLICATION NUMBER: US 60/536,639
; PRIOR FILING DATE: 2004-01-13
; NUMBER OF SEQ ID NOS: 991174
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 133942

US-10-719-956-570628
; Sequence 570628, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 570628
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-570628

Query Match      0.8%; Score 21.8; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 76;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1837 TACTCCTGGCTATGCCACGAGA 1861
Db 1 TATTCTGGCTATGCCACGAGA 25

RESULT 98
US-10-719-956-622206/c
; Sequence 622206, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 62206
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-622206

Query Match      0.8%; Score 21.8; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 76;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 827 CCTGCTGCTGGATGACCTACCGCA 851
Db 25 CCTGCTGCTGGAGACCTACGCA 1

RESULT 99
US-11-036-317-133942
; Sequence 133942, Application US/11036317
; Publication No. US20050214823A1
; GENERAL INFORMATION:
; APPLICANT: Williams, Alan
; APPLICANT: Blume, John
; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
; FILE REFERENCE: 3654.1
; CURRENT APPLICATION NUMBER: US/11/036,317
; CURRENT FILING DATE: 2005-01-13
; PRIOR APPLICATION NUMBER: US 60/536,639
; PRIOR FILING DATE: 2004-01-13
; NUMBER OF SEQ ID NOS: 991174
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 133942

US-11-036-317-484076
; Sequence 484076, Application US/11036317
; Publication No. US20050214823A1
; GENERAL INFORMATION:
; APPLICANT: Williams, Alan
; APPLICANT: Blume, John
; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
; FILE REFERENCE: 3654.1
; CURRENT APPLICATION NUMBER: US/11/036,317
; CURRENT FILING DATE: 2005-01-13
; PRIOR APPLICATION NUMBER: US 60/536,639
; PRIOR FILING DATE: 2004-01-13
; NUMBER OF SEQ ID NOS: 991174
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 484076
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-11-036-317-484076

Query Match      0.8%; Score 21.8; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 76;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1132 TGCCTGGAGACACACGAGGCTTCA 1156
Db 1 TGCCTGGAGACACACGAGGCTTCA 25

RESULT 101
US-11-036-317-493241/c
; Sequence 493241, Application US/11036317
; Publication No. US20050214823A1
; GENERAL INFORMATION:
; APPLICANT: Williams, Alan
; APPLICANT: Blume, John
; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
; FILE REFERENCE: 3654.1
; CURRENT APPLICATION NUMBER: US/11/036,317
; CURRENT FILING DATE: 2005-01-13
; PRIOR APPLICATION NUMBER: US 60/536,639
; PRIOR FILING DATE: 2004-01-13
; NUMBER OF SEQ ID NOS: 991174
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 493241
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-11-036-317-493241

Query Match      0.8%; Score 21.8; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 76;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2125 AGACGCTCAGGCACACGGGACAGAA 2149
Db 25 AGGCTCTCAGGCACACGGGACAGAA 1
```

```
RESULT 102
US-11-060-756-186203
; Sequence 186203, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 186203
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-186203

Query Match 0.8%; Score 21.8; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 76;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1636 CCAGCGGGCAATGACCAACCGACT 1660
||| ||||| ||||| ||||| ||||| |||||
Db 1 CCTCGGGGTAATGACCAACCGACT 25

RESULT 103
US-11-060-756-214684
; Sequence 214684, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 214684
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-214684

Query Match 0.8%; Score 21.8; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 76;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1636 CCAGCGGGCAATGACCAACCGACT 1660
||| ||||| ||||| ||||| ||||| |||||
Db 1 CCTCGGGGTAATGACCAACCGACT 25

RESULT 104
US-11-060-756-247603
; Sequence 247603, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 247603
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-247603

Query Match 0.8%; Score 21.8; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 76;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1860 GAAGCTCCCAAGAAACGAAGAG 1884
||| ||||| ||||| ||||| ||||| |||||
Db 1 GAAGCTCCCAAGAAACGAAGAG 25

RESULT 105
US-11-060-756-26084
; Sequence 26084, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 26084
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-26084

Query Match 0.8%; Score 21.8; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 76;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 709 TTGCGCTATGTGCTCAACTACTACC 733
||| ||||| ||||| ||||| ||||| |||||
Db 1 TTGCGCTATGTGCTCAACTACTACC 25

RESULT 106
US-11-060-756-26088
; Sequence 26088, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 26088
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-26088

Query Match 0.8%; Score 21.8; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 76;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 710 TTGCGCTATGTGCTCAACTACTACC 734
||| ||||| ||||| ||||| ||||| |||||
Db 1 TCGCCTATGTGCTCAACTACTACC 25
```

## RESULT 107

US-11-060-756-45760  
; Sequence 45760, Application US/11060756  
; Publication No. US20050221354A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William Martin  
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug

; TITLE OF INVENTION: Target Genes  
; FILE REFERENCE: AM101083 (031896-042000)  
; CURRENT APPLICATION NUMBER: US/11/060,756  
; CURRENT FILING DATE: 2005-02-18  
; NUMBER OF SEQ ID NOS: 303284  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 45760  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: probe  
US-11-060-756-45760

Query Match 0.8%; Score 21.8; DB 1; Length 25;  
Best Local Similarity 92.0%; Pred. No. 76;  
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1582 ATCTTGGCCACCATGATCTATTATG 1606  
|||||  
DB 1 ATCTTGGCCACCATGATCTACTAG 25

## RESULT 108

US-11-060-756-45790  
; Sequence 45790, Application US/11060756  
; Publication No. US20050221354A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William Martin  
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug

; TITLE OF INVENTION: Target Genes  
; FILE REFERENCE: AM101083 (031896-042000)  
; CURRENT APPLICATION NUMBER: US/11/060,756  
; CURRENT FILING DATE: 2005-02-18  
; NUMBER OF SEQ ID NOS: 303284  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 45790  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: probe  
US-11-060-756-45790

Query Match 0.8%; Score 21.8; DB 1; Length 25;  
Best Local Similarity 92.0%; Pred. No. 76;  
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1584 CTTTGGCCACCATGATCTATTATCT 1608  
|||||  
DB 1 CTTTGGCCACCATGATCTACTACGT 25

## RESULT 109

US-11-060-756-45791  
; Sequence 45791, Application US/11060756  
; Publication No. US20050221354A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William Martin  
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug

; TITLE OF INVENTION: Target Genes  
; FILE REFERENCE: AM101083 (031896-042000)  
; CURRENT APPLICATION NUMBER: US/11/060,756  
; CURRENT FILING DATE: 2005-02-18  
; NUMBER OF SEQ ID NOS: 303284  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 45791

; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: probe  
US-11-060-756-45791

Query Match 0.8%; Score 21.8; DB 1; Length 25;  
Best Local Similarity 92.0%; Pred. No. 76;  
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 1583 TCCTTGGCCACCATGATCTATTATGC 1607  
|||||  
DB 1 TCCTTGGCCACCATGATCTACTACGC 25

## RESULT 110

US-11-060-756-45796  
; Sequence 45796, Application US/11060756  
; Publication No. US20050221354A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William Martin  
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug

; TITLE OF INVENTION: Target Genes  
; FILE REFERENCE: AM101083 (031896-042000)  
; CURRENT APPLICATION NUMBER: US/11/060,756  
; CURRENT FILING DATE: 2005-02-18  
; NUMBER OF SEQ ID NOS: 303284  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 45796  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: probe  
US-11-060-756-45796

Query Match 0.8%; Score 21.8; DB 1; Length 25;  
Best Local Similarity 92.0%; Pred. No. 76;  
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1585 TTTGGCCACCATGATCTATTATGCTG 1609  
|||||  
DB 1 TTTGGCCACCATGATCTACTACGCTG 25

## RESULT 111

US-10-118-854-33  
; Sequence 33, Application US/10118854  
; Publication No. US20030194754A1  
; GENERAL INFORMATION:  
; APPLICANT: Bates, Paula J  
; APPLICANT: Miller, Donald M  
; APPLICANT: Trent, John O  
; APPLICANT: Xu, Xiaohua  
; TITLE OF INVENTION: A NEW METHOD FOR THE DIAGNOSIS AND PROGNOSIS OF MALIGNANT

; TITLE OF INVENTION: DISEASES  
; FILE REFERENCE: 9799910-  
; CURRENT APPLICATION NUMBER: US/10/118,854  
; CURRENT FILING DATE: 2003-04-08  
; NUMBER OF SEQ ID NOS: 38  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 33  
; LENGTH: 26  
; TYPE: DNA  
; ORGANISM: artificial sequence  
; FEATURE:  
; OTHER INFORMATION: synthetic oligonucleotide  
US-10-118-854-33

Query Match 0.7%; Score 21.2; DB 1; Length 26;  
Best Local Similarity 88.5%; Pred. No. 93;  
Matches 23; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 273 CCTCTCTCTCTCCACCATCTCTCTCC 298  
|||||

```
Db 1 CCTCCTCCTCCTTCTCCTCCTCCTCC 26

RESULT 112
US-10-607-455-33
; Sequence 33, Application US/10607455
; Publication No. US20040132049A1
; GENERAL INFORMATION:
; APPLICANT: Bates, Paula J
; APPLICANT: Mi, Yingchang
; TITLE OF INVENTION: A NEW METHOD FOR THE DIAGNOSIS AND PROGNOSIS OF MALIGNANT
; TITLE OF INVENTION: DISEASES
; FILE REFERENCE: 09799910-0034
; CURRENT APPLICATION NUMBER: US/10/607,455
; CURRENT FILING DATE: 2003-06-26
; PRIOR APPLICATION NUMBER: 60/392,143
; PRIOR FILING DATE: 2002-06-26
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 33
; LENGTH: 26
; TYPE: DNA
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-10-607-455-33

Query Match 0.7%; Score 21.2; DB 1; Length 26;
Best Local Similarity 88.5%; Pred. No. 93;
Matches 23; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 273 CCTCCTCCTCCTCCTCCTCCTCCTCC 298
|||||
Db 1 CCTCCTCCTCCTTCTCCTCCTCCTCC 26

RESULT 113
US-10-683-480-33
; Sequence 33, Application US/10683480
; Publication No. US20050053607A1
; GENERAL INFORMATION:
; APPLICANT: Bates, Paula J.
; APPLICANT: MILLER, DONALD M.
; APPLICANT: TRENT, JOHN O.
; APPLICANT: XU, XIAOHUA
; TITLE OF INVENTION: A NEW METHOD FOR THE DIAGNOSIS AND PROGNOSIS OF
; TITLE OF INVENTION: MALIGNANT DISEASES
; FILE REFERENCE: LOU01-012-CIP-US
; CURRENT APPLICATION NUMBER: US/10/683,480
; CURRENT FILING DATE: 2003-10-09
; PRIOR APPLICATION NUMBER: 19/118,854
; PRIOR FILING DATE: 2002-04-08
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 33
; LENGTH: 26
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: polynucleotide sequence
US-10-683-480-33

Query Match 0.7%; Score 21.2; DB 1; Length 26;
Best Local Similarity 88.5%; Pred. No. 93;
Matches 23; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 273 CCTCCTCCTCCTCCTCCTCCTCCTCC 298
|||||
Db 1 CCTCCTCCTCCTTCTCCTCCTCCTCC 26

RESULT 114
US-10-683-480-33
; Sequence 33, Application US/10683480
; Publication No. US20050053607A1
; GENERAL INFORMATION:
; APPLICANT: Bates, Paula J.
; APPLICANT: MILLER, DONALD M.
; APPLICANT: TRENT, JOHN O.
; APPLICANT: XU, XIAOHUA
; TITLE OF INVENTION: A NEW METHOD FOR THE DIAGNOSIS AND PROGNOSIS OF
; TITLE OF INVENTION: MALIGNANT DISEASES
; FILE REFERENCE: LOU01-012-CIP-US
; CURRENT APPLICATION NUMBER: US/10/683,480
; CURRENT FILING DATE: 2003-10-09
; PRIOR APPLICATION NUMBER: 19/118,854
; PRIOR FILING DATE: 2002-04-08
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 33
; LENGTH: 26
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: polynucleotide sequence
US-10-683-480-33

Query Match 0.7%; Score 21.2; DB 1; Length 26;
Best Local Similarity 88.5%; Pred. No. 93;
Matches 23; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 273 CCTCCTCCTCCTCCTCCTCCTCCTCC 298
|||||
Db 1 CCTCCTCCTCCTTCTCCTCCTCCTCC 26

RESULT 115
US-10-660-897-25/c
; Sequence 25, Application US/10660897
; Publication No. US20040115706A1
; GENERAL INFORMATION:
; APPLICANT: Jin, Cheng
; APPLICANT: Chung, Mary
; APPLICANT: Siddiqui-Jain, Adam
; APPLICANT: Whitten, Jeffrey
; APPLICANT: Farrell, Thomas
; TITLE OF INVENTION: HIGH-THROUGHPUT METHODS FOR IDENTIFYING
; TITLE OF INVENTION: QUADRUPLIX FORMING NUCLEIC ACIDS AND MODULATORS THEREOF
; FILE REFERENCE: 53232000800
; CURRENT APPLICATION NUMBER: US/10/660,897
; CURRENT FILING DATE: 2003-09-11
; PRIOR APPLICATION NUMBER: 60/410,475
; PRIOR FILING DATE: 2002-09-12
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: oligonucleotide
US-10-660-897-25

Query Match 0.7%; Score 20.8; DB 1; Length 24;
Best Local Similarity 91.7%; Pred. No. 91;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 275 TCCTCCTCCTCCTCCTCCTCCTCC 298
|||||
Db 24 TCCTCCTCCTCCTCCTCCTCCTCC 1

RESULT 116
US-10-719-900-259067/c
; Sequence 259067, Application US/10719900
```

```
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 259067
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
; US-10-719-900-259067

Query Match          0.7%; Score 20.8; DB 1; Length 25;
Best Local Similarity 91.7%; Pred. No. 96;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 509 AGATCATCATCAACGTGGCGGCA 532
Db 25 AGATCATCATCTGCTGGTGGCA 2

RESULT 117
US-10-719-956-161944
; Sequence 161944, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 161944
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; US-10-719-956-161944

Query Match          0.7%; Score 20.8; DB 1; Length 25;
Best Local Similarity 91.7%; Pred. No. 96;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1783 GTGCTAACCATTCGCCATGCTGTG 1806
Db 2 GTGCTGACCATTCGTATGCTGTG 25

RESULT 118
US-11-036-317-212232/c
; Sequence 212232, Application US/11036317
; Publication No. US20050214823A1
; GENERAL INFORMATION:
; APPLICANT: Williams, Alan
; APPLICANT: Blume, John
; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
; FILE REFERENCE: 3654.1
; CURRENT APPLICATION NUMBER: US/11/036,317
; CURRENT FILING DATE: 2005-01-13
; PRIOR APPLICATION NUMBER: US 60/536,639
; PRIOR FILING DATE: 2004-01-13
; NUMBER OF SEQ ID NOS: 991174
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 212232
; LENGTH: 25
; TYPE: DNA

; ORGANISM: Mus musculus
; US-11-036-317-212232

Query Match          0.7%; Score 20.8; DB 1; Length 25;
Best Local Similarity 91.7%; Pred. No. 96;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1098 TCTCTTCTTCATCTCTGCTCTCCAT 1121
Db 24 TCTCTTCTTCATCTCTGCTCTCCAT 1

RESULT 119
US-11-036-317-300079/c
; Sequence 300079, Application US/11036317
; Publication No. US20050214823A1
; GENERAL INFORMATION:
; APPLICANT: Williams, Alan
; APPLICANT: Blume, John
; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
; FILE REFERENCE: 3654.1
; CURRENT APPLICATION NUMBER: US/11/036,317
; CURRENT FILING DATE: 2005-01-13
; PRIOR APPLICATION NUMBER: US 60/536,639
; PRIOR FILING DATE: 2004-01-13
; NUMBER OF SEQ ID NOS: 991174
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 300079
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
; US-11-036-317-300079

Query Match          0.7%; Score 20.8; DB 1; Length 25;
Best Local Similarity 91.7%; Pred. No. 96;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1098 TCTCTTCTTCATCTCTGCTCTCCAT 1121
Db 25 TCTCTTCTTCATCTCTGCTCTCCAT 2

RESULT 120
US-11-036-317-418633
; Sequence 418633, Application US/11036317
; Publication No. US20050214823A1
; GENERAL INFORMATION:
; APPLICANT: Williams, Alan
; APPLICANT: Blume, John
; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
; FILE REFERENCE: 3654.1
; CURRENT APPLICATION NUMBER: US/11/036,317
; CURRENT FILING DATE: 2005-01-13
; PRIOR APPLICATION NUMBER: US 60/536,639
; PRIOR FILING DATE: 2004-01-13
; NUMBER OF SEQ ID NOS: 991174
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 418633
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
; US-11-036-317-418633

Query Match          0.7%; Score 20.8; DB 1; Length 25;
Best Local Similarity 91.7%; Pred. No. 96;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2204 ATGGCAGTGTCCAGAAAGAGGCA 2227
Db 2 ATGGCTGTGTCCAGAAAGTAGGCA 25

RESULT 121
```

```
US-11-060-756-141818
; TYPE: DNA
; ORGANISM: probe
; Sequence 141818, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 141818
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-141818

Query Match      0.7%; Score 20.8; DB 1; Length 25;
Best Local Similarity 91.7%; Pred. No. 96;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1683 CTGGTGGGCTGTGCTACCATGAC 1706
      ||||| ||||| ||||| ||||| |||||
Db 2 CTGGTGGGCTGTGCTACCATGAC 25

RESULT 122
US-11-060-756-185862
; Sequence 185862, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 185862
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-185862

Query Match      0.7%; Score 20.8; DB 1; Length 25;
Best Local Similarity 91.7%; Pred. No. 96;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1777 GCTGGTGTGCTAACCATTTGCCATG 1800
      ||||| ||||| ||||| ||||| |||||
Db 2 GCTGGTGTGCTAACCAATTGCCCTG 25

RESULT 123
US-11-060-756-185863
; Sequence 185863, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 185863
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-185863

Query Match      0.7%; Score 20.8; DB 1; Length 25;
Best Local Similarity 91.7%; Pred. No. 96;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1777 GCTGGTGTGCTAACCATTTGCCATG 1800
      ||||| ||||| ||||| ||||| |||||
Db 2 GCTGGTGTGCTAACCAATTGCCCTG 25

RESULT 124
US-11-060-756-197821
; Sequence 197821, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 197821
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-197821

Query Match      0.7%; Score 20.8; DB 1; Length 25;
Best Local Similarity 91.7%; Pred. No. 96;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1806 GCTGTGTCATCGTCAATAACTTTGCG 1829
      ||||| ||||| ||||| ||||| |||||
Db 1 GCCTGTGTCATCGTCAACAACACTTCGG 24

RESULT 125
US-11-060-756-209287
; Sequence 209287, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 209287
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-209287

Query Match      0.7%; Score 20.8; DB 1; Length 25;
Best Local Similarity 91.7%; Pred. No. 96;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1903 CAGCTTGAGTCACCCCAATTACTGC 1926
      ||||| ||||| ||||| ||||| |||||
Db 2 CAGCTGGAGTCACCCCAATGACTACTGC 25

RESULT 126
US-11-060-756-26082
```



```
; Sequence 26082, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 26082
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-26082

Query Match          0.7%; Score 20.8; DB 1; Length 25;
Best Local Similarity 91.7%; Pred. No. 96;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 709 TTGCGCTATGTGCTCAACTACTAC 732
Db 2 TTGCGCTATGTGCTCAACTACTAC 25

RESULT 127
US-11-060-756-45794
; Sequence 45794, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 45794
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-45794

Query Match          0.7%; Score 20.8; DB 1; Length 25;
Best Local Similarity 91.7%; Pred. No. 96;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1822 AACTTTGGTATGTACTACTCCCTG 1845
Db 2 AACTTCGGCATGTACTACTCCCTG 25

RESULT 128
US-10-645-471A-4/c
; Sequence 4, Application US/10645471A
; Publication No. US20040171022A1
; GENERAL INFORMATION:
; APPLICANT: Ebbinghaus, Scot W.
; APPLICANT: Hurley, Laurence H.
; APPLICANT: Siddiqui-Jain, Adam
; APPLICANT: Memmott, Regan
; TITLE OF INVENTION: METHODS FOR REGULATING TRANSCRIPTION BY
; TITLE OF INVENTION: TARGETING QUADRUPLAX DNA
; FILE REFERENCE: 532232000500
; CURRENT APPLICATION NUMBER: US/10/645,471A
; CURRENT FILING DATE: 2003-08-20
; PRIOR APPLICATION NUMBER: 60/404,965
; PRIOR FILING DATE: 2002-08-20
; NUMBER OF SEQ ID NOS: 32
```

```
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 23
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: 12
; OTHER INFORMATION: n = A,T,C or G
US-10-645-471A-4
```

```
Query Match          0.7%; Score 20.4; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 94;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 276 CCTCTCTCTCCACCACCTCTCTCC 298
Db 23 CCTCTCTCTCCNCCTCTCTCTCC 1
```

```
RESULT 129
US-10-719-900-359115
; Sequence 359115, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 359115
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-359115
```

```
Query Match          0.7%; Score 20.4; DB 1; Length 25;
Best Local Similarity 95.5%; Pred. No. 1.1e+02;
Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1766 TGTGTGCACTGGCTGTGTGCT 1787
Db 4 TGTGTGCTCTGGCTGTGTGCT 25
```

```
RESULT 130
US-11-060-756-185142
; Sequence 185142, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 185142
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-185142

Query Match          0.7%; Score 20.4; DB 1; Length 25;
Best Local Similarity 95.5%; Pred. No. 1.1e+02;
```

```
Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1658 ACTTCAAGACATCCCCATCGG 1679
|||||
Db 4 ACTTTAAGACATCCCCATCGG 25

RESULT 131
US-11-060-756-185143
; Sequence 185143, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; TITLE OF INVENTION: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 185143
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-185143

Query Match 0.7%; Score 20.4; DB 1; Length 25;
Best Local Similarity 95.5%; Pred. No. 1.1e+02;
Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1658 ACTTCAAGACATCCCCATCGG 1679
|||||
Db 4 ACTTTAAGACATCCCCATCGG 25

RESULT 132
US-10-719-900-221674
; Sequence 221674, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 221674
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-221674

Query Match 0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 2815 AGTTGAAGGACAGATTGCCCTTCG 2839
|||||
Db 1 AGTTGAAGGACAGATTGCCCTTCG 25

RESULT 133
US-10-719-900-357415
; Sequence 357415, Application US/10719900
; Publication No. US20050026164A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
; FILE REFERENCE: 3528.1
```

```
; CURRENT APPLICATION NUMBER: US/10/719,900
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,808
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 982914
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 357415
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-719-900-357415

Query Match 0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 2803 CCTGCTGAAGTCAGTTGAAGGCACG 2827
|||||
Db 1 CCTGTTGAAGTCGTGTTGAAGGCAAG 25

RESULT 134
US-10-719-956-200061
; Sequence 200061, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 200061
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-200061

Query Match 0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1831 ATGTACTACTCCTCGCTATGGCCA 1855
|||||
Db 1 ATGTACTACTCCATGGCAATGGCGA 25

RESULT 135
US-10-719-956-200062
; Sequence 200062, Application US/10719956
; Publication No. US20040146910A1
; GENERAL INFORMATION:
; APPLICANT: Xue Mei Zhou
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat
; FILE REFERENCE: 3527.1
; CURRENT APPLICATION NUMBER: US/10/719,956
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,836
; PRIOR FILING DATE: 2002 11 20
; NUMBER OF SEQ ID NOS: 699466
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 200062
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-719-956-200062

Query Match 0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

QY 1831 ATGTACTACTCCCTGGCTATGGCCA 1855  
|||||  
Db 1 ATGTACTACTCCCTGGCAATGGCCA 25

RESULT 136  
US-10-719-956-200067  
; Sequence 200067, Application US/10719956  
; Publication No. US20040146910A1  
; GENERAL INFORMATION:  
; APPLICANT: Xue Mei Zhou  
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat  
; FILE REFERENCE: 3527.1  
; CURRENT APPLICATION NUMBER: US/10/719,956  
; PRIOR FILING DATE: 2003-11-20  
; PRIOR FILING DATE: 2003-11-20  
; PRIOR FILING DATE: 2002 11 20  
; NUMBER OF SEQ ID NOS: 699466  
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1  
; SEQ ID NO 200067  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Rattus norvegicus  
US-10-719-956-200067

Query Match 0.7%; Score 20.2; DB 1; Length 25;  
Best Local Similarity 88.0%; Pred. No. 1.1e+02;  
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 1831 ATGTACTACTCCCTGGCTATGGCCA 1855  
|||||  
Db 1 ATGTACTATTTCAGTGGCTATGGCCA 25

RESULT 137  
US-10-719-956-274083  
; Sequence 274083, Application US/10719956  
; Publication No. US20040146910A1  
; GENERAL INFORMATION:  
; APPLICANT: Xue Mei Zhou  
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat  
; FILE REFERENCE: 3527.1  
; CURRENT APPLICATION NUMBER: US/10/719,956  
; PRIOR FILING DATE: 2003-11-20  
; PRIOR FILING DATE: 2003-11-20  
; PRIOR FILING DATE: 2002 11 20  
; NUMBER OF SEQ ID NOS: 699466  
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1  
; SEQ ID NO 274083  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Rattus norvegicus  
US-10-719-956-274083

Query Match 0.7%; Score 20.2; DB 1; Length 25;  
Best Local Similarity 88.0%; Pred. No. 1.1e+02;  
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 1843 CTGGCTATGGCCAGCAGAGCTTC 1867  
|||||  
Db 1 CTGGCTATGGCCAGCAGAAATTC 25

RESULT 138  
US-10-719-956-570629  
; Sequence 570629, Application US/10719956  
; Publication No. US20040146910A1  
; GENERAL INFORMATION:  
; APPLICANT: Xue Mei Zhou  
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat  
; FILE REFERENCE: 3527.1  
; CURRENT APPLICATION NUMBER: US/10/719,956

; CURRENT FILING DATE: 2003-11-20  
; PRIOR FILING DATE: 2003-11-20  
; PRIOR FILING DATE: 2002 11 20  
; NUMBER OF SEQ ID NOS: 699466  
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1  
; SEQ ID NO 570629  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Rattus norvegicus  
US-10-719-956-570629

Query Match 0.7%; Score 20.2; DB 1; Length 25;  
Best Local Similarity 88.0%; Pred. No. 1.1e+02;  
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 1837 TACTCCTGGCTATGGCCAGCAGA 1861  
|||||  
Db 1 TATTCACCTGGCTTTGGCCAGCAGA 25

RESULT 139  
US-10-719-956-591368/c  
; Sequence 591368, Application US/10719956  
; Publication No. US20040146910A1  
; GENERAL INFORMATION:  
; APPLICANT: Xue Mei Zhou  
; TITLE OF INVENTION: Methods of Genetic Analysis of Rat  
; FILE REFERENCE: 3527.1  
; CURRENT APPLICATION NUMBER: US/10/719,956  
; PRIOR FILING DATE: 2003-11-20  
; PRIOR FILING DATE: 2003-11-20  
; PRIOR FILING DATE: 2002 11 20  
; NUMBER OF SEQ ID NOS: 699466  
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1  
; SEQ ID NO 591368  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Rattus norvegicus  
US-10-719-956-591368

Query Match 0.7%; Score 20.2; DB 1; Length 25;  
Best Local Similarity 88.0%; Pred. No. 1.1e+02;  
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 794 CTTTCGGGGTATCGATGAGACAGA 818  
|||||  
Db 25 CATTCTGGGGCATCGATGAGACCGA 1

RESULT 140  
US-10-956-157-236481/c  
; Sequence 236481, Application US/10956157  
; Publication No. US20050118625A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William  
; TITLE OF INVENTION: NUCLEIC ACID ARRAYS FOR DETECTING GENE EXPRESSION ASSOCIATED WITH  
; TITLE OF INVENTION: HUMAN OSTEOARTHRITIS AND HUMAN PROTEASES  
; FILE REFERENCE: 031896-043000 (AM 101081)  
; CURRENT APPLICATION NUMBER: US/10/956,157  
; CURRENT FILING DATE: 2004-10-04  
; NUMBER OF SEQ ID NOS: 319805  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 236481  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Probe Sequence  
US-10-956-157-236481

Query Match 0.7%; Score 20.2; DB 1; Length 25;  
Best Local Similarity 88.0%; Pred. No. 1.1e+02;  
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;



```
Query Match      0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 278 TCCTCTCCACCACTCTCTCTCT 302
Db 1 TCCTCTCCACTACCTCTCTCACT 25

RESULT 146
US-11-036-317-373294/c
; Sequence 373294, Application US/11036317
; Publication No. US20050214823A1
; GENERAL INFORMATION:
; APPLICANT: Williams, Alan
; APPLICANT: Blume, John
; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
; FILE REFERENCE: 3654.1
; CURRENT APPLICATION NUMBER: US/11/036,317
; CURRENT FILING DATE: 2005-01-13
; PRIOR APPLICATION NUMBER: US 60/536,639
; PRIOR FILING DATE: 2004-01-13
; NUMBER OF SEQ ID NOS: 991174
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 373294
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-11-036-317-373294

Query Match      0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1099 CTCCTCTTCATCTTGCTCTCCATTA 1123
Db 25 CTCCTCTTCATCTTGCTCTCCATCA 1

RESULT 147
US-11-036-317-445067
; Sequence 445067, Application US/11036317
; Publication No. US20050214823A1
; GENERAL INFORMATION:
; APPLICANT: Williams, Alan
; APPLICANT: Blume, John
; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
; FILE REFERENCE: 3654.1
; CURRENT APPLICATION NUMBER: US/11/036,317
; CURRENT FILING DATE: 2005-01-13
; PRIOR APPLICATION NUMBER: US 60/536,639
; PRIOR FILING DATE: 2004-01-13
; NUMBER OF SEQ ID NOS: 991174
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 445067
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-11-036-317-445067

Query Match      0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1034 GAATGTGGCGCTCTTCGAGGACCC 1058
Db 1 GCATCTGGCGCTGTTCGAGGACCC 25

RESULT 148
US-11-036-317-479639
; Sequence 479639, Application US/11036317
; Publication No. US20050214823A1
```

```
; GENERAL INFORMATION:
; APPLICANT: Williams, Alan
; APPLICANT: Blume, John
; TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
; FILE REFERENCE: 3654.1
; CURRENT APPLICATION NUMBER: US/11/036,317
; CURRENT FILING DATE: 2005-01-13
; PRIOR APPLICATION NUMBER: US 60/536,639
; PRIOR FILING DATE: 2004-01-13
; NUMBER OF SEQ ID NOS: 991174
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 479639
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Mus musculus
US-11-036-317-479639

Query Match      0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1343 TCACATCATCGACTTTGTGGCCAT 1367
Db 1 TCACATCATCGACTTCGTGGCCAT 25

RESULT 149
US-11-060-756-123312
; Sequence 123312, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TARGET GENES
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 123312
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-123312

Query Match      0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1813 ATCGTCAATACTTTGGTATGTACT 1837
Db 1 ATCGTCAACAACCTTCGGCATGTACT 25

RESULT 150
US-11-060-756-124299
; Sequence 124299, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TARGET GENES
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 124299
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
```

US-11-060-756-124299

Query Match 0.7%; Score 20.2; DB 1; Length 25;  
 Best Local Similarity 88.0%; Pred. No. 1.1e+02;  
 Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1750 ATGCTGGTGGTGGCTGCTGTGTGCAC 1774  
 ||||| ||||| ||||| ||||| |||||  
 Db 1 ATGCTGGTAGGGGCACTGTGTGCAC 25

RESULT 151

US-11-060-756-149069  
 ; Sequence 149069, Application US/11060756  
 ; Publication No. US20050221354A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wyeth  
 ; APPLICANT: Mounts, William Martin  
 ; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug  
 ; FILE REFERENCE: AM101083 (031896-042000)  
 ; CURRENT APPLICATION NUMBER: US/11/060,756  
 ; CURRENT FILING DATE: 2005-02-18  
 ; NUMBER OF SEQ ID NOS: 303284  
 ; SOFTWARE: PatentIn version 3.2  
 ; SEQ ID NO 149069  
 ; LENGTH: 25  
 ; TYPE: DNA  
 ; ORGANISM: probe  
 ; ORGANISM: probe

US-11-060-756-149069

Query Match 0.7%; Score 20.2; DB 1; Length 25;  
 Best Local Similarity 88.0%; Pred. No. 1.1e+02;  
 Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1873 AAACGGAAGAAGCATGTACCACGCG 1897  
 ||||| ||||| ||||| ||||| |||||  
 Db 1 AAACGGAAGAAGCAGCTGCCACGCG 25

RESULT 152

US-11-060-756-154351  
 ; Sequence 154351, Application US/11060756  
 ; Publication No. US20050221354A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wyeth  
 ; APPLICANT: Mounts, William Martin  
 ; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug  
 ; FILE REFERENCE: AM101083 (031896-042000)  
 ; CURRENT APPLICATION NUMBER: US/11/060,756  
 ; CURRENT FILING DATE: 2005-02-18  
 ; NUMBER OF SEQ ID NOS: 303284  
 ; SOFTWARE: PatentIn version 3.2  
 ; SEQ ID NO 154351  
 ; LENGTH: 25  
 ; TYPE: DNA  
 ; ORGANISM: probe  
 ; ORGANISM: probe

US-11-060-756-154351

Query Match 0.7%; Score 20.2; DB 1; Length 25;  
 Best Local Similarity 88.0%; Pred. No. 1.1e+02;  
 Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1735 AAGACATGGTCAGCAATGCTGGTGG 1759  
 ||||| ||||| ||||| ||||| |||||  
 Db 1 AAGACGGTGCAGGCAATGCTGGTAG 25

RESULT 153

US-11-060-756-161731  
 ; Sequence 161731, Application US/11060756  
 ; Publication No. US20050221354A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wyeth  
 ; APPLICANT: Mounts, William Martin  
 ; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug  
 ; FILE REFERENCE: AM101083 (031896-042000)  
 ; CURRENT APPLICATION NUMBER: US/11/060,756  
 ; CURRENT FILING DATE: 2005-02-18  
 ; NUMBER OF SEQ ID NOS: 303284  
 ; SOFTWARE: PatentIn version 3.2  
 ; SEQ ID NO 161731  
 ; LENGTH: 25  
 ; TYPE: DNA  
 ; ORGANISM: probe  
 ; ORGANISM: probe

US-11-060-756-161731

Query Match 0.7%; Score 20.2; DB 1; Length 25;  
 Best Local Similarity 88.0%; Pred. No. 1.1e+02;  
 Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1818 CAATAACTTTCGTATGTACTACTCC 1842  
 ||||| ||||| ||||| ||||| |||||  
 Db 1 CAACAACTTCGGCATGTACTACTCC 25

RESULT 154

US-11-060-756-163386  
 ; Sequence 163386, Application US/11060756  
 ; Publication No. US20050221354A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wyeth  
 ; APPLICANT: Mounts, William Martin  
 ; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug  
 ; FILE REFERENCE: AM101083 (031896-042000)  
 ; CURRENT APPLICATION NUMBER: US/11/060,756  
 ; CURRENT FILING DATE: 2005-02-18  
 ; NUMBER OF SEQ ID NOS: 303284  
 ; SOFTWARE: PatentIn version 3.2  
 ; SEQ ID NO 163386  
 ; LENGTH: 25  
 ; TYPE: DNA  
 ; ORGANISM: probe  
 ; ORGANISM: probe

US-11-060-756-163386

Query Match 0.7%; Score 20.2; DB 1; Length 25;  
 Best Local Similarity 88.0%; Pred. No. 1.1e+02;  
 Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1653 CACCGACTTCAAGACATCCCATC 1677  
 ||||| ||||| ||||| ||||| |||||  
 Db 1 CACGCACCTTTAAGAACATCCCATC 25

RESULT 155

US-11-060-756-163387  
 ; Sequence 163387, Application US/11060756  
 ; Publication No. US20050221354A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Wyeth  
 ; APPLICANT: Mounts, William Martin  
 ; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug  
 ; FILE REFERENCE: AM101083 (031896-042000)  
 ; CURRENT APPLICATION NUMBER: US/11/060,756  
 ; CURRENT FILING DATE: 2005-02-18  
 ; NUMBER OF SEQ ID NOS: 303284  
 ; SOFTWARE: PatentIn version 3.2  
 ; SEQ ID NO 163387  
 ; LENGTH: 25  
 ; TYPE: DNA  
 ; ORGANISM: probe  
 ; ORGANISM: probe

US-11-060-756-163387

```
Query Match      0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1653 CACGACTTCAAGAACATCCCATC 1677
Db 1 CACGACTTTAAGAACATCCCATC 25

RESULT 156
US-11-060-756-18113
; Sequence 18113, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 18113
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-18113

Query Match      0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1808 CTGTCATCGTCAATACTTGTGAT 1832
Db 1 CTGTCATCGTCAACAACCTCGGCAT 25

RESULT 157
US-11-060-756-202472
; Sequence 202472, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 202472
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-202472

Query Match      0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1752 GCTGGTGGGTGGCGCTGTGCACTG 1776
Db 1 GCTGGTAGGGGCACCTGTGTGCACTG 25

RESULT 158
US-11-060-756-227120/c
; Sequence 227120, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 227120
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-227120
```

```
Query Match      0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
QY 273 CCTCTCTCTCTCCACACCTCTCTC 297
Db 25 CCTCTCTCTCTCTCTCTCTCTCTC 1
```

```
RESULT 159
US-11-060-756-239042
; Sequence 239042, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 239042
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-239042
```

```
Query Match      0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
QY 1816 GTCAATAACTTTGGTATGTACTACT 1840
Db 1 GTCAACAACCTTCGGCATGTACTACT 25
```

```
RESULT 160
US-11-060-756-239506
; Sequence 239506, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 239506
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-239506
```

```
Query Match      0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1810 GTCATCGCTCAATTAATTGGTATCT 1834
    |||||
Db 1 GTCATCGCTCAACAACTTCGGCAATGT 25
    |||||

RESULT 161
US-11-060-756-26083
; Sequence 26083, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 26083
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-26083

Query Match      0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 707 TTTTGGCTATGCTCAACTACTA 731
    |||||
Db 1 TCTTGGCTATGCTCAATTA 25
    |||||

RESULT 162
US-11-060-756-26085
; Sequence 26085, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 26085
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-26085

Query Match      0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 706 GTTTTGGCTATGCTCAACTACT 730
    |||||
Db 1 GTCITGGCTATGCTCAATTA 25
    |||||

RESULT 163
US-11-060-756-264985
; Sequence 264985, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
```

```
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 264985
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-264985

Query Match      0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1754 TGTGTGGTGGCTGTGTGCACTGGC 1778
    |||||
Db 1 TGTAGGGGCACCTGTGTGCACTGGC 25
    |||||

RESULT 164
US-11-060-756-269351
; Sequence 269351, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 269351
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-269351

Query Match      0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1580 TCATCTTTGGCACCACCATGATCTATTA 1604
    |||||
Db 1 TGATCTTCGCCACCACCATGATCTACTA 25
    |||||

RESULT 165
US-11-060-756-277185
; Sequence 277185, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 277185
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-277185

Query Match      0.7%; Score 20.2; DB 1; Length 25;
```



```
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 45759
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-45759

Query Match      0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1816 GTCATAACTTTGGTATGTACTACT 1840
    ||||| ||||| ||||| ||||| |||||
Db 1 GTCACAACTTCGGCATGTACTACT 25

RESULT 169
US-11-060-756-45762
; Sequence 45762, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 45762
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-45762

Query Match      0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1818 CAATAACTTTGGTATGTACTACTCC 1842
    ||||| ||||| ||||| ||||| |||||
Db 1 CAACAACTTCGGCATGTACTACTCC 25

RESULT 170
US-11-060-756-45766
; Sequence 45766, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 45766
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-45766

Query Match      0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1817 TCAATAACTTTGGTATGTACTACTC 1841
    ||||| ||||| ||||| ||||| |||||
Db 1 TCAACAACTTCGGCATGTACTACTC 25

RESULT 168
US-11-060-756-45759
; Sequence 45759, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 45758
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-45758

Query Match      0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1582 ATCTTGGCCACCATGATCTACTACG 1606
    ||||| ||||| ||||| ||||| |||||
Db 1 ATCTTGGCCACCATGATCTACTACG 25

RESULT 167
US-11-060-756-45758
; Sequence 45758, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 45758
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-45758

Query Match      0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1582 ATCTTGGCCACCATGATCTACTACG 1606
    ||||| ||||| ||||| ||||| |||||
Db 1 ATCTTGGCCACCATGATCTACTACG 25

RESULT 166
US-11-060-756-45700
; Sequence 45700, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 45700
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-45700

Query Match      0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1630 TCTGACCCACGGGCAATGACCACA 1654
    ||||| ||||| ||||| ||||| |||||
Db 1 TCCGACCTCGGGTAATGACCACA 25
```

```
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1815 CGTCAATAACTTTGGTATGTACT 1839
||||| ||||| ||||| |||||
Db 1 CGTCAACAACCTTCGGCATGTACT 25

RESULT 171
US-11-060-756-45769
; Sequence 45769, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 45769
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-45769

Query Match 0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1814 TCGTCAATAACTTTGGTATGTACT 1838
||||| ||||| ||||| |||||
Db 1 TCGTCAACAACCTTCGGCATGTACT 25

RESULT 172
US-11-060-756-45780
; Sequence 45780, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 45780
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-45780

Query Match 0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1812 CATCGTCAATAACTTTGGTATGTAC 1836
||||| ||||| ||||| |||||
Db 1 CATCGTCAACAACCTTCGGCATGTAC 25

RESULT 173
US-11-060-756-45781
; Sequence 45781, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
```

```
; TITLE OF INVENTION: Target Genes
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 45781
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-45781

Query Match 0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1813 ATCGTCAATAACTTTGGTATGTACT 1837
||||| ||||| ||||| |||||
Db 1 ATCGTCAACAACCTTCGGCATGTACT 25

RESULT 174
US-11-060-756-45782
; Sequence 45782, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 45782
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-45782

Query Match 0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1811 TCATCGTCAATAACTTTGGTATGTA 1835
||||| ||||| ||||| |||||
Db 1 TCATCGTCAACAACCTTCGGCATGTA 25

RESULT 175
US-11-060-756-45795
; Sequence 45795, Application US/11060756
; Publication No. US20050221354A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William Martin
; TITLE OF INVENTION: Nucleic Acid Arrays for Monitoring Expression Profiles of Drug
; FILE REFERENCE: AM101083 (031896-042000)
; CURRENT APPLICATION NUMBER: US/11/060,756
; CURRENT FILING DATE: 2005-02-18
; NUMBER OF SEQ ID NOS: 303284
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 45795
; LENGTH: 25
; TYPE: DNA
; ORGANISM: probe
US-11-060-756-45795

Query Match 0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 1.1e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```



```
; Publication No. US20040220082A1
; GENERAL INFORMATION:
; APPLICANT: Surmeier, D. James
; APPLICANT: Tkatch, Tatiana
; APPLICANT: Baranaukas, Gytis
; TITLE OF INVENTION: Manipulation of Neuronal Ion Channels
; FILE REFERENCE: NWESTERN-08739
; CURRENT APPLICATION NUMBER: US/10/761,557
; CURRENT FILING DATE: 2004-01-21
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Rattus rattus
; US-10-761-557-3

Query Match          0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 98;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2025 GCAGATGGTGACGCTAAT 2043
Db 1 GCAGATGGTGACGCTAAT 19

RESULT 180
US-10-092-900A-738
; Sequence 738, Application US/10092900A
; Publication No. US20040043382A1
; GENERAL INFORMATION:
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Spytek, Kimberly A.
; APPLICANT: Shenoy, Suresh G.
; APPLICANT: Taupier Jr., Raymond J.
; APPLICANT: Pena, Carol E.A.
; APPLICANT: Li, Li
; APPLICANT: Zerhusen, Bryan D.
; APPLICANT: Gusev, Vladimir Y.
; APPLICANT: Ji, Weizhen
; APPLICANT: Gorman, Linda
; APPLICANT: Miller, Charles E.
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Patturajan, Meera
; APPLICANT: Gangolli, Esha A.
; APPLICANT: Vernet, Corine A.M.
; APPLICANT: Guo, Xiaojia Sasha
; APPLICANT: Tchernev, Velizar T.
; APPLICANT: Fernandes, Elma R.
; APPLICANT: Casman, Stacie J.
; APPLICANT: Malyankar, Uriel M.
; APPLICANT: Gerlach, Valerie
; APPLICANT: Liu, Yi
; APPLICANT: Anderson, David W.
; APPLICANT: Spaderna, Steven K.
; APPLICANT: Catterton, Elina
; APPLICANT: Leite, Mario W.
; APPLICANT: Zhong, Haihong
; APPLICANT: Alsbrook, John P.
; APPLICANT: Lepley, Denise M.
; APPLICANT: Rieger, Daniel K.
; APPLICANT: Burgess, Catherine E.
; TITLE OF INVENTION: No. US20040043382A1el Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-290C
; CURRENT APPLICATION NUMBER: US/10/092,900A
; CURRENT FILING DATE: 2002-03-07
; PRIOR APPLICATION NUMBER: USSN 60/274,322
; PRIOR FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: USSN 60/283,675
; PRIOR FILING DATE: 2001-04-13
; PRIOR APPLICATION NUMBER: USSN 60/338,092
; PRIOR FILING DATE: 2001-12-03
; PRIOR APPLICATION NUMBER: USSN 60/274,281
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; PRIOR FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: USSN 60/274,191
; PRIOR FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: USSN 60/325,681
; PRIOR FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: USSN 60/304,354
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: USSN 60/279,995
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: USSN 60/294,899
; PRIOR FILING DATE: 2001-05-31
; PRIOR APPLICATION NUMBER: USSN 60/287,424
; PRIOR FILING DATE: 2001-04-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 768
; SEQ ID NO 738
; LENGTH: 23
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: probe
; US-10-092-900A-738

Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 1.3e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1691 CTGTGTCACCATGACACGCT 1712
Db 1 CTGTGTCACCATGACACGCT 22

RESULT 181
US-10-418-182-96/c
; Sequence 96, Application US/10418182
; Publication No. US20030228302A1
; GENERAL INFORMATION:
; APPLICANT: Crea, Roberto
; TITLE OF INVENTION: UNIVERSAL LIBRARIES FOR IMMUNOGLOBULINS
; FILE REFERENCE: 1551.2001-001
; CURRENT APPLICATION NUMBER: US/10/418,182
; CURRENT FILING DATE: 2003-04-16
; PRIOR APPLICATION NUMBER: 60/373,558
; PRIOR FILING DATE: 2002-04-17
; NUMBER OF SEQ ID NOS: 423
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 96
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: oligonucleotide
; US-10-418-182-96

Query Match          0.6%; Score 18.4; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 1.3e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGCGGC 663
Db 20 GCAGCAGCGGCAGCAGCAGC 1

RESULT 182
US-10-751-736-10027/c
; Sequence 10027, Application US/10751736
; Publication No. US20040265230A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Martinez, Robert
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON
```

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; TITLE OF INVENTION:  CANCERS
; FILE REFERENCE:  AM100927 (031896-002000)
; CURRENT APPLICATION NUMBER:  US/10/751.736
; CURRENT FILING DATE:  2003-01-06
; PRIOR APPLICATION NUMBER:  US Provisional Application 60/438,000
; PRIOR FILING DATE:  2003-01-06
; NUMBER OF SEQ ID NOS:  54873
; SOFTWARE:  PatentIn version 3.2
; SEQ ID NO 10027
; LENGTH:  21
; TYPE:  DNA
; ORGANISM:  homo sapiens
US-10-751-736-10027

Query Match          0.6%; Score 18.4; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 1.3e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2677 CTTTCATGGATTGTTTCTTCT 2696
Db 21 CTCCTGATGTTTCTTCT 2

RESULT 183
US-10-751-736-41708/c
; Sequence 41708, Application US/10751736
; Publication No. US20040265230A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Martinez, Robert
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei
; TITLE OF INVENTION:  COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON
; FILE REFERENCE:  AM100927 (031896-002000)
; CURRENT APPLICATION NUMBER:  US/10/751.736
; CURRENT FILING DATE:  2003-01-06
; PRIOR APPLICATION NUMBER:  US Provisional Application 60/438,000
; PRIOR FILING DATE:  2003-01-06
; NUMBER OF SEQ ID NOS:  54873
; SOFTWARE:  PatentIn version 3.2
; SEQ ID NO 41708
; LENGTH:  21
; TYPE:  RNA
; ORGANISM:  RNAi
US-10-751-736-41708

Query Match          0.6%; Score 18.4; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 1.3e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2438 ATCCTTGTTTGACAAAGACT 2457
Db 20 ATCCTTGTTTGACAAAGACT 1

RESULT 184
US-10-761-557-1
; Sequence 1, Application US/10761557
; Publication No. US20040220082A1
; GENERAL INFORMATION:
; APPLICANT: Surmeier, D. James
; APPLICANT: Baranaukas, Gytis
; TITLE OF INVENTION:  Manipulation of Neuronal Ion Channels
; FILE REFERENCE:  NWESTERN-08739
; CURRENT APPLICATION NUMBER:  US/10/761,557
; CURRENT FILING DATE:  2004-01-21
; NUMBER OF SEQ ID NOS:  5
; SOFTWARE:  PatentIn version 3.2
; SEQ ID NO 1
; LENGTH:  19
; TYPE:  DNA
```

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; ORGANISM:  Rattus rattus
US-10-761-557-1

Query Match          0.6%; Score 18; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1165 CGAAATGTGACGGAGATC 1182
Db 2 CGAAATGTGACGGAGATC 19

RESULT 185
US-10-761-557-4
; Sequence 4, Application US/10761557
; Publication No. US20040220082A1
; GENERAL INFORMATION:
; APPLICANT: Surmeier, D. James
; APPLICANT: Tkatch, Tatiana
; APPLICANT: Baranaukas, Gytis
; TITLE OF INVENTION:  Manipulation of Neuronal Ion Channels
; FILE REFERENCE:  NWESTERN-08739
; CURRENT APPLICATION NUMBER:  US/10/761,557
; CURRENT FILING DATE:  2004-01-21
; NUMBER OF SEQ ID NOS:  5
; SOFTWARE:  PatentIn version 3.2
; SEQ ID NO 4
; LENGTH:  19
; TYPE:  DNA
; ORGANISM:  Rattus rattus
US-10-761-557-4

Query Match          0.6%; Score 18; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2224 GGCAGTGTGAGCCGAAA 2241
Db 1 GGCAGTGTGAGCCGAAA 18

RESULT 186
US-09-828-034-9
; Sequence 9, Application US/09828034
; Patent No. US20020064771A1
; GENERAL INFORMATION:
; APPLICANT: Zhong, Weidong
; APPLICANT: Hong, Zhi
; APPLICANT: Ferrari, Eric
; TITLE OF INVENTION:  HCV REPLICASE COMPLEXES
; FILE REFERENCE:  IN01165
; CURRENT APPLICATION NUMBER:  US/09/828,034
; CURRENT FILING DATE:  2001-04-06
; PRIOR APPLICATION NUMBER:  U.S. 60/195,852
; PRIOR FILING DATE:  2000-04-06
; NUMBER OF SEQ ID NOS:  33
; SOFTWARE:  PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH:  21
; TYPE:  RNA
; ORGANISM:  Artificial Sequence
; FEATURE:
; OTHER INFORMATION:  Description of Artificial Sequence: Synthetic RNA
US-09-828-034-9

Query Match          0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 66.7%; Pred. No. 1.5e+02;
Matches 14; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 275 TCCTCCTCCTCCACCACTCC 295
Db 1 UCCUCUCCUCCUCCUCCUCC 21
```

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RESULT 187
US-10-085-849-7
; CURRENT APPLICATION NUMBER: US/10/085,849
; SEQUENCE 7, Application US/10085849
; PUBLICATION NO. US20020160939A1
; GENERAL INFORMATION:
; APPLICANT: Albert Einstein College of Medicine of Yeshiva University
; TITLE OF INVENTION: A METHOD OF IDENTIFICATION OF INHIBITORS OF PDE1C AND
; TITLE OF INVENTION: METHODS OF
; TITLE OF INVENTION: TREATMENT OF DIABETES
; FILE REFERENCE: 96700/556
; CURRENT APPLICATION NUMBER: US/10/085,849
; CURRENT FILING DATE: 2002-02-27
; PRIOR APPLICATION NUMBER: US/09/245,169
; PRIOR FILING DATE: 1999-02-05
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-085-849-7

Query Match          0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 1.5e+02;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 208 GGGGGTGGGGTGGGGGGGAGG 228
Db 1 GGGGGTGGGGTGGGTGAGAGG 21

RESULT 188
US-10-418-182-126
; Sequence 126, Application US/10418182
; PUBLICATION NO. US20030228302A1
; GENERAL INFORMATION:
; APPLICANT: Crea, Roberto
; TITLE OF INVENTION: UNIVERSAL LIBRARIES FOR IMMUNOGLOBULINS
; FILE REFERENCE: 1551.2001-001
; CURRENT APPLICATION NUMBER: US/10/418,182
; CURRENT FILING DATE: 2003-04-16
; PRIOR APPLICATION NUMBER: 60/373,558
; PRIOR FILING DATE: 2002-04-17
; NUMBER OF SEQ ID NOS: 423
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 126
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: oligonucleotide
US-10-418-182-126

Query Match          0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 1.5e+02;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 276 CCTCCTCCTCCACCACTCCT 296
Db 1 CCTCCTCCTCCCTCCTCCT 21

RESULT 189
US-10-479-472A-7/c
; Sequence 7, Application US/10479472A
; PUBLICATION NO. US20050118581A1
; GENERAL INFORMATION:
; APPLICANT: DEL-FAVERO, JURGEN PETER LODE
; APPLICANT: VAN BROECKHOVEN, CHRISTINE
; TITLE OF INVENTION: NOVEL BRAIN EXPRESSED GENE AND PROTEIN ASSOCIATED WITH
; TITLE OF INVENTION: BIPOLAR DISORDER
; FILE REFERENCE: JAB-1711
```

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; CURRENT APPLICATION NUMBER: US/10/479,472A
; CURRENT FILING DATE: 2003-12-01
; PRIOR APPLICATION NUMBER: PCT/EP02/06316
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: EP 01202214.1
; PRIOR FILING DATE: 2001-06-11
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 7
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Illustrative
; OTHER INFORMATION: oligonucleotide
US-10-479-472A-7

Query Match          0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 1.5e+02;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGCGG 671
Db 21 CGGCAGCGCGCGCGCGCGCGG 1

RESULT 190
US-10-708-204-2962
; Sequence 2962, Application US/10708204
; PUBLICATION NO. US20050222399A1
; GENERAL INFORMATION:
; APPLICANT: ROSETTA GENOMICS LTD
; TITLE OF INVENTION: BIOINFORMATIALLY DETECTABLE GROUP OF NOVEL REGULATORY
; TITLE OF INVENTION: OLIGONUCLEOTIDES ASSOCIATED WITH ALZHEIMER'S DISEASE AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 55033
; CURRENT APPLICATION NUMBER: US/10/708,204
; CURRENT FILING DATE: 2004-02-16
; NUMBER OF SEQ ID NOS: 7351
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2962
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Homo Sapiens
; OTHER INFORMATION:
US-10-708-204-2962

Query Match          0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 1.5e+02;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 642 AGGCAGCAGCGCGCGAGCGG 662
Db 1 AGGCAGCAGCGCGCGAGCGG 21

RESULT 191
US-10-708-204-5352
; Sequence 5352, Application US/10708204
; PUBLICATION NO. US20050222399A1
; GENERAL INFORMATION:
; APPLICANT: ROSETTA GENOMICS LTD
; TITLE OF INVENTION: BIOINFORMATIALLY DETECTABLE GROUP OF NOVEL REGULATORY
; TITLE OF INVENTION: OLIGONUCLEOTIDES ASSOCIATED WITH ALZHEIMER'S DISEASE AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 55033
; CURRENT APPLICATION NUMBER: US/10/708,204
; CURRENT FILING DATE: 2004-02-16
; NUMBER OF SEQ ID NOS: 7351
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 5352
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Homo Sapiens
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US-10-708-204-5352

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 66.7%; Pred. No. 1.5e+02;  
Matches 14; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 281 TCCTCCACCACTCTCTCTCC 301  
Db 1 UUCUCCACACCCUCCUCC 21

RESULT 192

US-10-751-736-10024/c  
; Sequence 10024, Application US/10751736  
; Publication No. US20040265230A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Martinez, Robert  
; APPLICANT: Brown, Eugene  
; APPLICANT: Liu, Wei  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON  
; FILE REFERENCE: AM100927 (031896-002000)  
; CURRENT APPLICATION NUMBER: US/10/751,736  
; CURRENT FILING DATE: 2003-01-06  
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000  
; PRIOR FILING DATE: 2003-01-06  
; NUMBER OF SEQ ID NOS: 54873  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 10024  
; LENGTH: 21  
; TYPE: DNA  
; ORGANISM: homo sapiens  
US-10-751-736-10024

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 1.5e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2680 CATGGATTGTTCTCTGACC 2700  
Db 21 CATGGATTGTTCTCTCATC 1

RESULT 193

US-10-831-819-12  
; Sequence 12, Application US/10831819  
; Publication No. US20050112613A1  
; GENERAL INFORMATION:  
; APPLICANT: KRAHE, RALF  
; APPLICANT: ZHANG, SHANKANG  
; APPLICANT: DE LA CHAPELLE, ALBERT  
; TITLE OF INVENTION: METHODS AND REAGENTS FOR PREDICTING THE LIKELIHOOD OF  
; FILE REFERENCE: 18525/04053  
; CURRENT APPLICATION NUMBER: US/10/831,819  
; CURRENT FILING DATE: 2004-04-26  
; PRIOR APPLICATION NUMBER: 60/320,146  
; PRIOR FILING DATE: 2003-04-25  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: PatentIn Ver. 3.2  
; SEQ ID NO 12  
; LENGTH: 21  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Probe  
US-10-831-819-12

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 1.5e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 651 CGGACGACGCGCGCGCGG 671  
Db 1 CGGCGCGCGCGCGCGCGG 21

RESULT 194

US-09-935-338-164/c  
; Sequence 164, Application US/09935338  
; Publication No. US20030073081A1  
; GENERAL INFORMATION:  
; APPLICANT: MUKAI, Hiroyuki  
; APPLICANT: SAGAWA, Hiroaki  
; APPLICANT: UEMORI, Takashi  
; APPLICANT: YAMAMOTO, Junko  
; APPLICANT: TOMONO, Jun  
; APPLICANT: KOBAYASHI, Eiji  
; APPLICANT: ENOKI, Tatsuji  
; APPLICANT: TAKEIDA, Osamu  
; APPLICANT: MIYAKE, Kazuo  
; APPLICANT: SATO, Yoshiaki  
; APPLICANT: MORIYAMA, Mariko  
; APPLICANT: SAWABE, Haruhisa  
; APPLICANT: HAGIYA, Michio  
; APPLICANT: ASADA, Kiyozo  
; APPLICANT: KATO, Ikunoshin  
; TITLE OF INVENTION: A method for amplification of nucleic acids  
; FILE REFERENCE: MUKAI=1  
; CURRENT APPLICATION NUMBER: US/09/935,338  
; CURRENT FILING DATE: 2001-08-23  
; PRIOR APPLICATION NUMBER: JP11-076966  
; PRIOR FILING DATE: 1999-03-19  
; PRIOR APPLICATION NUMBER: JP11-370035  
; PRIOR FILING DATE: 1999-12-27  
; PRIOR APPLICATION NUMBER: JP2000-251981  
; PRIOR FILING DATE: 2000-08-23  
; PRIOR APPLICATION NUMBER: JP2000-284419  
; PRIOR FILING DATE: 2000-09-19  
; PRIOR APPLICATION NUMBER: JP2000-288750  
; PRIOR FILING DATE: 2000-09-22  
; PRIOR APPLICATION NUMBER: JP2001-104191  
; PRIOR FILING DATE: 2001-04-03  
; PRIOR APPLICATION NUMBER: PCT/JP00/01534  
; PRIOR FILING DATE: 2000-03-14  
; NUMBER OF SEQ ID NOS: 290  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 164  
; LENGTH: 19  
; TYPE: DNA  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: Designed chimeric oligonucleotide primer to amplify a portion of  
; OTHER INFORMATION: iNOS-encoding sequence from mouse. "nucleotides 17 to 19 are  
; OTHER INFORMATION: ribonucleotides-other nucleotides are deoxyribonucleotides"  
US-09-935-338-164

Query Match 0.6%; Score 17.4; DB 1; Length 19;  
Best Local Similarity 94.7%; Pred. No. 1.4e+02;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1579 CTCATCTTTGCCACCATGA 1597  
Db 19 CTCATCTTTGCCACCAAGA 1

RESULT 195

US-09-935-338-166/c  
; Sequence 166, Application US/09935338  
; Publication No. US20030073081A1  
; GENERAL INFORMATION:  
; APPLICANT: MUKAI, Hiroyuki  
; APPLICANT: SAGAWA, Hiroaki  
; APPLICANT: UEMORI, Takashi  
; APPLICANT: YAMAMOTO, Junko

```
; APPLICANT: TOMONO, Jun
; APPLICANT: KOBAYASHI, Biiji
; APPLICANT: ENOKI, Tatsuji
; APPLICANT: TAKEDA, Osamu
; APPLICANT: MIYAKE, Kazuo
; APPLICANT: SATO, Yoshimi
; APPLICANT: MORIYAMA, Mariko
; APPLICANT: SAWARAGI, Haruhisa
; APPLICANT: HAGIYA, Michio
; APPLICANT: ASADA, Kiyozo
; APPLICANT: KATO, Ikunoshin
; TITLE OF INVENTION: A method for amplification of nucleic acids
; FILE REFERENCE: MUKAI-1
; CURRENT APPLICATION NUMBER: US/09/935,338
; CURRENT FILING DATE: 2001-08-23
; PRIOR APPLICATION NUMBER: JP11-076966
; PRIOR FILING DATE: 1999-03-19
; PRIOR APPLICATION NUMBER: JP11-370035
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP2000-251981
; PRIOR FILING DATE: 2000-08-23
; PRIOR APPLICATION NUMBER: JP2000-284419
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: JP2000-288750
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: JP2001-104191
; PRIOR FILING DATE: 2001-04-03
; PRIOR APPLICATION NUMBER: PCT/JP00/01534
; PRIOR FILING DATE: 2000-03-14
; NUMBER OF SEQ ID NOS: 290
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 166
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Designed oligonucleotide primer to amplify a portion of
; OTHER INFORMATION: INOS-encoding sequence from mouse
US-09-935-338-166

Query Match 0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 1.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1579 CTCATCTTTGCCACCATGA 1597
    |||||
Db 19 CTCATCTTTGCCACCAAGA 1

RESULT 197
US-10-923-522-270/c
; Sequence 270, Application US/109233522
; Publication No. US20050159381A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; APPLICANT: Chowrira, Bharat
; APPLICANT: Beigelman, Leonid
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Chromosome Translocation
; FILE REFERENCE: 400/192 (MBHB03-026-B)
; CURRENT APPLICATION NUMBER: US/10/923,522
; CURRENT FILING DATE: 2004-08-20
; PRIOR APPLICATION NUMBER: PCT/US 03/05234
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/439,922
; PRIOR FILING DATE: 2003-01-14
; PRIOR APPLICATION NUMBER: US 60/404,039
; PRIOR FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: PCT/US 04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1779
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 270
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-923-522-270

Query Match 0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 1.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 650 GCGGCGAGCGGCGGCGG 668
    |||||
Db 19 GCGGCGAGCGGCGGCGG 1

RESULT 198
US-10-923-522-7
; Sequence 7, Application US/109233522
; Publication No. US20050159381A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; APPLICANT: Chowrira, Bharat
; APPLICANT: Beigelman, Leonid
```



```

; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Chromosome Translocation
; FILE REFERENCE: 400/192 (MBHB03-026-B)
; CURRENT APPLICATION NUMBER: US/10/923,522
; PRIOR FILING DATE: 2004-08-20
; PRIOR APPLICATION NUMBER: PCT/US 03/05234
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/439,922
; PRIOR FILING DATE: 2003-01-14
; PRIOR APPLICATION NUMBER: US 60/404,039
; PRIOR FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: PCT/US 04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1779
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 7
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-923-522-7

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 1.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      650 GCGGACGACGCGCGCGG 668
Db      1 GCGGACGACGCGCGCGG 19
|||||

RESULT 199
US-10-929-759-164/c
; Sequence 164, Application US/10929759
; Publication No. US20050123950A1
; GENERAL INFORMATION:
; APPLICANT: MUKAI, Hiroyuki
; APPLICANT: SAGAWA, Hiroaki
; APPLICANT: UEMORI, Takashi
; APPLICANT: YAMAMOTO, Junko
; APPLICANT: TOMONO, Jun
; APPLICANT: KOBAYASHI, Ei-ji
; APPLICANT: ENOKI, Tatsuji
; APPLICANT: TAKEDA, Osamu
; APPLICANT: MIYAKE, Kazuo
; APPLICANT: SATO, Yoshiaki
; APPLICANT: MORIYAMA, Mariko
; APPLICANT: SAWARAGI, Haruhisa
; APPLICANT: HAGIYA, Michio
; APPLICANT: ASADA, Kiyozo
; APPLICANT: KATO, Ikunoshin
; TITLE OF INVENTION: A method for amplification of nucleic acids
; FILE REFERENCE: MUKAI-1
; CURRENT APPLICATION NUMBER: US/10/929,759
; CURRENT FILING DATE: 2004-08-31
; PRIOR FILING DATE: 2004-08-31
; PRIOR APPLICATION NUMBER: US/09/935,338
; PRIOR FILING DATE: 2001-08-23
; PRIOR APPLICATION NUMBER: JP11-076966
; PRIOR FILING DATE: 1999-03-19
; PRIOR APPLICATION NUMBER: JP11-370035
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP2000-251981
; PRIOR FILING DATE: 2000-08-23
; PRIOR APPLICATION NUMBER: JP2000-284419
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: JP2000-288750
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: JP2001-104191
; PRIOR FILING DATE: 2001-08-23
; PRIOR APPLICATION NUMBER: JP11-076966
; PRIOR FILING DATE: 1999-03-19
; PRIOR APPLICATION NUMBER: PCT/JP00/01534
; PRIOR FILING DATE: 2000-03-14

; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Chromosome Translocation
; FILE REFERENCE: 400/192 (MBHB03-026-B)
; CURRENT APPLICATION NUMBER: US/10/923,522
; PRIOR FILING DATE: 2004-08-20
; PRIOR APPLICATION NUMBER: PCT/US 03/05234
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/439,922
; PRIOR FILING DATE: 2003-01-14
; PRIOR APPLICATION NUMBER: US 60/404,039
; PRIOR FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: PCT/US 04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1779
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 7
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-923-522-7

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 1.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      650 GCGGACGACGCGCGCGG 668
Db      1 GCGGACGACGCGCGCGG 19
|||||

RESULT 199
US-10-929-759-166/c
; Sequence 166, Application US/10929759
; Publication No. US20050123950A1
; GENERAL INFORMATION:
; APPLICANT: MUKAI, Hiroyuki
; APPLICANT: SAGAWA, Hiroaki
; APPLICANT: UEMORI, Takashi
; APPLICANT: YAMAMOTO, Junko
; APPLICANT: TOMONO, Jun
; APPLICANT: KOBAYASHI, Ei-ji
; APPLICANT: ENOKI, Tatsuji
; APPLICANT: TAKEDA, Osamu
; APPLICANT: MIYAKE, Kazuo
; APPLICANT: SATO, Yoshiaki
; APPLICANT: MORIYAMA, Mariko
; APPLICANT: SAWARAGI, Haruhisa
; APPLICANT: HAGIYA, Michio
; APPLICANT: ASADA, Kiyozo
; APPLICANT: KATO, Ikunoshin
; TITLE OF INVENTION: A method for amplification of nucleic acids
; FILE REFERENCE: MUKAI-1
; CURRENT APPLICATION NUMBER: US/10/929,759
; CURRENT FILING DATE: 2004-08-31
; PRIOR FILING DATE: 2004-08-31
; PRIOR APPLICATION NUMBER: US/09/935,338
; PRIOR FILING DATE: 2001-08-23
; PRIOR APPLICATION NUMBER: JP11-076966
; PRIOR FILING DATE: 1999-03-19
; PRIOR APPLICATION NUMBER: JP11-370035
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP2000-251981
; PRIOR FILING DATE: 2000-08-23
; PRIOR APPLICATION NUMBER: JP2000-284419
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: JP2000-288750
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: JP2001-104191
; PRIOR FILING DATE: 2001-08-23
; PRIOR APPLICATION NUMBER: PCT/JP00/01534
; PRIOR FILING DATE: 2000-03-14

; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Chromosome Translocation
; FILE REFERENCE: 400/192 (MBHB03-026-B)
; CURRENT APPLICATION NUMBER: US/10/923,522
; PRIOR FILING DATE: 2004-08-20
; PRIOR APPLICATION NUMBER: PCT/US 03/05234
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/439,922
; PRIOR FILING DATE: 2003-01-14
; PRIOR APPLICATION NUMBER: US 60/404,039
; PRIOR FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: PCT/US 04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1779
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 7
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-923-522-7

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 1.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1579 CTCATCTTTGCCACCATGA 1597
Db      19 CTCATCTTTGCCACCAAGA 1
|||||

RESULT 200
US-10-929-759-166/c
; Sequence 166, Application US/10929759
; Publication No. US20050123950A1
; GENERAL INFORMATION:
; APPLICANT: MUKAI, Hiroyuki
; APPLICANT: SAGAWA, Hiroaki
; APPLICANT: UEMORI, Takashi
; APPLICANT: YAMAMOTO, Junko
; APPLICANT: TOMONO, Jun
; APPLICANT: KOBAYASHI, Ei-ji
; APPLICANT: ENOKI, Tatsuji
; APPLICANT: TAKEDA, Osamu
; APPLICANT: MIYAKE, Kazuo
; APPLICANT: SATO, Yoshiaki
; APPLICANT: MORIYAMA, Mariko
; APPLICANT: SAWARAGI, Haruhisa
; APPLICANT: HAGIYA, Michio
; APPLICANT: ASADA, Kiyozo
; APPLICANT: KATO, Ikunoshin
; TITLE OF INVENTION: A method for amplification of nucleic acids
; FILE REFERENCE: MUKAI-1
; CURRENT APPLICATION NUMBER: US/10/929,759
; CURRENT FILING DATE: 2004-08-31
; PRIOR FILING DATE: 2004-08-31
; PRIOR APPLICATION NUMBER: US/09/935,338
; PRIOR FILING DATE: 2001-08-23
; PRIOR APPLICATION NUMBER: JP11-076966
; PRIOR FILING DATE: 1999-03-19
; PRIOR APPLICATION NUMBER: JP11-370035
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP2000-251981
; PRIOR FILING DATE: 2000-08-23
; PRIOR APPLICATION NUMBER: JP2000-284419
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: JP2000-288750
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: JP2001-104191
; PRIOR FILING DATE: 2001-08-23
; PRIOR APPLICATION NUMBER: PCT/JP00/01534
; PRIOR FILING DATE: 2000-03-14
```

OTHER INFORMATION: Designed chimeric oligonucleotide primer to amplify a portion of inos-encoding sequence from mouse. "nucleotides 17 to 19 are ribonucleotides-other nucleotides are deoxyribonucleotides"

US-10-929-759-164

```
; NUMBER OF SEQ ID NOS: 290
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 166
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Designed oligonucleotide primer to amplify a portion of
; OTHER INFORMATION: iNOS-encoding sequence from mouse
US-10-929-759-166

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 1.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1579 CTCATCTTTGCCACCATGA 1597
      |||||
Db 19 CTCATCTTTGCCACCAAGA 1

RESULT 201
US-10-973-919-164/c
; Sequence 164, Application US/10973919
; Publication No. US20050239100A1
; GENERAL INFORMATION:
; APPLICANT: MUKAI, Hiroyuki
; APPLICANT: SAGAWA, Hiroaki
; APPLICANT: UEMORI, Takashi
; APPLICANT: YAMAMOTO, Junko
; APPLICANT: TOMONO, Jun
; APPLICANT: KOBAYASHI, Ei-ji
; APPLICANT: ENOKI, Tatsuji
; APPLICANT: TAKEDA, Osamu
; APPLICANT: MIYAKE, Kazue
; APPLICANT: SATO, Yoshihimi
; APPLICANT: MORIYAMA, Mariko
; APPLICANT: SAWARAGI, Haruhisa
; APPLICANT: HAGIYA, Michio
; APPLICANT: ASADA, Kiyozo
; APPLICANT: KATO, Ikunoshin
; TITLE OF INVENTION: A method for amplification of nucleic acids
; FILE REFERENCE: MUKAI-1
; CURRENT APPLICATION NUMBER: US/10/973,919
; CURRENT FILING DATE: 2004-10-27
; PRIOR APPLICATION NUMBER: US/09/935,338
; PRIOR FILING DATE: 2001-08-23
; PRIOR APPLICATION NUMBER: JP11-076966
; PRIOR FILING DATE: 1999-03-19
; PRIOR APPLICATION NUMBER: JP11-370035
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP2000-251981
; PRIOR FILING DATE: 2000-08-23
; PRIOR APPLICATION NUMBER: JP2000-284419
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: JP2000-288750
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: JP2001-104191
; PRIOR FILING DATE: 2001-04-03
; PRIOR APPLICATION NUMBER: PCT/JP00/01534
; PRIOR FILING DATE: 2000-03-14
; NUMBER OF SEQ ID NOS: 290
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 164
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Designed chimeric oligonucleotide primer to amplify a portion of
; OTHER INFORMATION: iNOS-encoding sequence from mouse. "nucleotides 17 to 19 are
; OTHER INFORMATION: ribonucleotides-other nucleotides are deoxyribonucleotides"
US-10-973-919-164

Query Match          0.6%; Score 17.4; DB 1; Length 19;
```

```
Best Local Similarity 94.7%; Pred. No. 1.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1579 CTCATCTTTGCCACCATGA 1597
      |||||
Db 19 CTCATCTTTGCCACCAAGA 1

RESULT 202
US-10-973-919-166/c
; Sequence 166, Application US/10973919
; Publication No. US20050239100A1
; GENERAL INFORMATION:
; APPLICANT: MUKAI, Hiroyuki
; APPLICANT: SAGAWA, Hiroaki
; APPLICANT: UEMORI, Takashi
; APPLICANT: YAMAMOTO, Junko
; APPLICANT: TOMONO, Jun
; APPLICANT: KOBAYASHI, Ei-ji
; APPLICANT: ENOKI, Tatsuji
; APPLICANT: TAKEDA, Osamu
; APPLICANT: MIYAKE, Kazue
; APPLICANT: SATO, Yoshihimi
; APPLICANT: MORIYAMA, Mariko
; APPLICANT: SAWARAGI, Haruhisa
; APPLICANT: HAGIYA, Michio
; APPLICANT: ASADA, Kiyozo
; APPLICANT: KATO, Ikunoshin
; TITLE OF INVENTION: A method for amplification of nucleic acids
; FILE REFERENCE: MUKAI-1
; CURRENT APPLICATION NUMBER: US/10/973,919
; CURRENT FILING DATE: 2004-10-27
; PRIOR APPLICATION NUMBER: US/09/935,338
; PRIOR FILING DATE: 2001-08-23
; PRIOR APPLICATION NUMBER: JP11-076966
; PRIOR FILING DATE: 1999-03-19
; PRIOR APPLICATION NUMBER: JP11-370035
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP2000-251981
; PRIOR FILING DATE: 2000-08-23
; PRIOR APPLICATION NUMBER: JP2000-284419
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: JP2000-288750
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: JP2001-104191
; PRIOR FILING DATE: 2001-04-03
; PRIOR APPLICATION NUMBER: PCT/JP00/01534
; PRIOR FILING DATE: 2000-03-14
; NUMBER OF SEQ ID NOS: 290
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 166
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Designed oligonucleotide primer to amplify a portion of
; OTHER INFORMATION: iNOS-encoding sequence from mouse
US-10-973-919-166

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 1.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1579 CTCATCTTTGCCACCATGA 1597
      |||||
Db 19 CTCATCTTTGCCACCAAGA 1

RESULT 203
US-10-751-736-10025/c
; Sequence 10025, Application US/10751736
; Publication No. US20040265230A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Wyeth
; APPLICANT: Martinez, Robert
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON
; FILE OF INVENTION: CANCERS
; FILE REFERENCE: AM100927 (031896-002000)
; CURRENT APPLICATION NUMBER: US/10/751,736
; CURRENT FILING DATE: 2003-01-06
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000
; PRIOR FILING DATE: 2003-01-06
; NUMBER OF SEQ ID NOS: 54873
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 10025
; LENGTH: 21
; TYPE: RNA
; ORGANISM: RNA1
US-10-751-736-10025

Query Match      0.6%; Score 17.4; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.6e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2680 CATGGATTGTTCTCTGA 2698
Db 19 CATGGATTGTTCTCTCA 1

RESULT 204
US-10-751-736-10028/c
; Sequence 10028, Application US/10751736
; Publication No. US20040265230A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Martinez, Robert
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON
; FILE REFERENCE: AM100927 (031896-002000)
; CURRENT APPLICATION NUMBER: US/10/751,736
; CURRENT FILING DATE: 2003-01-06
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000
; PRIOR FILING DATE: 2003-01-06
; NUMBER OF SEQ ID NOS: 54873
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 10028
; LENGTH: 21
; TYPE: RNA
; ORGANISM: RNA1
US-10-751-736-10028

Query Match      0.6%; Score 17.4; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.6e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2677 CTTCATGGATTGTTCTTC 2695
Db 19 CTCCATGGATTGTTCTTC 1

RESULT 205
US-10-751-736-10030/c
; Sequence 10030, Application US/10751736
; Publication No. US20040265230A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Martinez, Robert
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON
; FILE REFERENCE: AM100927 (031896-002000)
```

```
; CURRENT APPLICATION NUMBER: US/10/751,736
; CURRENT FILING DATE: 2003-01-06
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000
; PRIOR FILING DATE: 2003-01-06
; NUMBER OF SEQ ID NOS: 54873
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 10030
; LENGTH: 21
; TYPE: DNA
; ORGANISM: homo sapiens
US-10-751-736-10030

Query Match      0.6%; Score 17.4; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.6e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2677 CTTCATGGATTGTTCTTC 2695
Db 19 CTCCATGGATTGTTCTTC 1

RESULT 206
US-10-751-736-10327/c
; Sequence 10327, Application US/10751736
; Publication No. US20040265230A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Martinez, Robert
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON
; FILE REFERENCE: AM100927 (031896-002000)
; CURRENT APPLICATION NUMBER: US/10/751,736
; CURRENT FILING DATE: 2003-01-06
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000
; PRIOR FILING DATE: 2003-01-06
; NUMBER OF SEQ ID NOS: 54873
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 10327
; LENGTH: 21
; TYPE: DNA
; ORGANISM: homo sapiens
US-10-751-736-10327

Query Match      0.6%; Score 17.4; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.6e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2677 CTTCATGGATTGTTCTTC 2695
Db 19 CTCCATGGATTGTTCTTC 1

RESULT 207
US-10-751-736-40389
; Sequence 40389, Application US/10751736
; Publication No. US20040265230A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Martinez, Robert
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON
; FILE REFERENCE: AM100927 (031896-002000)
; CURRENT APPLICATION NUMBER: US/10/751,736
; CURRENT FILING DATE: 2003-01-06
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000
; PRIOR FILING DATE: 2003-01-06
; NUMBER OF SEQ ID NOS: 54873
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 40389
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; LENGTH: 21
; TYPE: RNA
; ORGANISM: RNAi
US-10-751-736-40389

Query Match          0.6%; Score 17.4; DB 1; Length 21;
Best Local Similarity 63.2%; Pred. No. 1.6e+02;
Matches 12; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 287 ACCACCTCCCTCCCTCTCT 305
Db 3 ACCUCCUCCUCCUCCUUCU 21

RESULT 208
US-10-751-736-41122/c
; Sequence 41122, Application US/10751736
; Publication No. US20040265230A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Martinez, Robert
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON
; TITLE OF INVENTION: CANCERS
; FILE REFERENCE: AM100927 (031896-002000)
; CURRENT APPLICATION NUMBER: US/10/751.736
; CURRENT FILING DATE: 2003-01-06
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000
; PRIOR FILING DATE: 2003-01-06
; NUMBER OF SEQ ID NOS: 54873
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 41122
; LENGTH: 21
; TYPE: DNA
; ORGANISM: homo sapiens
US-10-751-736-41122

Query Match          0.6%; Score 17.4; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.6e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2439 TCCTTGTTTGCACAGACT 2457
Db 20 TCCTTGCTTGCACAGACT 2

RESULT 209
US-10-751-736-41707/c
; Sequence 41707, Application US/10751736
; Publication No. US20040265230A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Martinez, Robert
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON
; TITLE OF INVENTION: CANCERS
; FILE REFERENCE: AM100927 (031896-002000)
; CURRENT APPLICATION NUMBER: US/10/751.736
; CURRENT FILING DATE: 2003-01-06
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000
; PRIOR FILING DATE: 2003-01-06
; NUMBER OF SEQ ID NOS: 54873
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 41707
; LENGTH: 21
; TYPE: DNA
; ORGANISM: homo sapiens
US-10-751-736-41707

Query Match          0.6%; Score 17.4; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.6e+02;
```

```
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2439 TCCTTGTTTGCACAGACT 2457
Db 21 TCCTTGCTTGCACAGACT 3

RESULT 210
US-09-948-002-35
; Sequence 35, Application US/09948002
; Publication No. US20030050265A1
; GENERAL INFORMATION:
; APPLICANT: Nicholas M. Dean
; APPLICANT: Susan F. Murray
; TITLE OF INVENTION: ANTISENSE MODULATION OF TRANSFORMING GROWTH
; TITLE OF INVENTION: FACTOR BETA EXPRESSION
; FILE REFERENCE: ISPH-0607
; CURRENT APPLICATION NUMBER: US/09/948,002
; CURRENT FILING DATE: 2000-09-05
; PRIOR APPLICATION NUMBER: 09/661,753
; PRIOR FILING DATE: 2000-09-14
; PRIOR APPLICATION NUMBER: 60/154,546
; PRIOR FILING DATE: 1999-09-17
; NUMBER OF SEQ ID NOS: 71
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-948-002-35

Query Match          0.8%; Score 17; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGC 660
Db 4 GCAGCAGCGGCAGCAGC 20

RESULT 211
US-10-167-034-125/c
; Sequence 125, Application US/10167034
; Publication No. US20030228690A1
; GENERAL INFORMATION:
; APPLICANT: Brenda F. Baker
; APPLICANT: Susan M. Freier
; APPLICANT: Kenneth W. Dobie
; TITLE OF INVENTION: ANTISENSE MODULATION OF IL-1 RECEPTOR-ASSOCIATED KINASE-1 (EXPRESS)
; FILE REFERENCE: PFS-0003
; CURRENT APPLICATION NUMBER: US/10/167,034
; CURRENT FILING DATE: 2002-06-10
; NUMBER OF SEQ ID NOS: 142
; SEQ ID NO 125
; LENGTH: 20
; TYPE: DNA
; ORGANISM: H. sapiens
; FEATURE:
US-10-167-034-125

Query Match          0.6%; Score 17; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 633 CGCGCGTGCAGGCAGCA 649
Db 17 CGCGCGTGCAGGCAGCA 1

RESULT 212
US-10-167-034-58
; Sequence 58, Application US/10167034
```

; Publication No. US20030228690A1  
; GENERAL INFORMATION:  
; APPLICANT: Brenda F. Baker  
; APPLICANT: Susan M. Freier  
; APPLICANT: Kenneth W. Dobie  
; TITLE OF INVENTION: ANTISENSE MODULATION OF IL-1 RECEPTOR-ASSOCIATED KINASE-1 EXPRESSION  
; FILE REFERENCE: PFS-0003  
; CURRENT APPLICATION NUMBER: US/10/167,034  
; CURRENT FILING DATE: 2002-06-10  
; NUMBER OF SEQ ID NOS: 142  
; SEQ ID NO 58  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-167-034-58

Query Match 0.6%; Score 17; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 1.7e+02;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 633 CGCGGGTGCAGGCAGCA 649  
|||||  
Db 4 CGCGGGTGCAGGCAGCA 20

RESULT 213  
US-10-633-163-35  
; Sequence 35, Application US/10633163  
; Publication No. US20040063655A1  
; GENERAL INFORMATION:  
; APPLICANT: Nicholas M. Dean  
; APPLICANT: Susan F. Murray  
; TITLE OF INVENTION: ANTISENSE MODULATION OF TRANSFORMING GROWTH  
; FILE REFERENCE: ISPH-0607  
; CURRENT APPLICATION NUMBER: US/10/633,163  
; CURRENT FILING DATE: 2003-08-01  
; PRIOR APPLICATION NUMBER: US/09/948,002  
; PRIOR FILING DATE: 2000-09-05  
; PRIOR APPLICATION NUMBER: 09/661,753  
; PRIOR FILING DATE: 2000-09-14  
; PRIOR APPLICATION NUMBER: 60/154,546  
; PRIOR FILING DATE: 1999-09-17  
; NUMBER OF SEQ ID NOS: 71  
; SEQ ID NO 35  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide  
US-10-633-163-35

Query Match 0.6%; Score 17; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 1.7e+02;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGC 660  
|||||  
Db 4 GCAGCAGCGGCAGCAGC 20

RESULT 214  
US-09-949-427-97/c  
; Sequence 97, Application US/09949427  
; Publication No. US20030054418A1  
; GENERAL INFORMATION:  
; APPLICANT: Bodnar, Jackie S.  
; APPLICANT: Castellani, Lawrence W.  
; APPLICANT: Chatterjee, Aurobindo  
; APPLICANT: de Jong, Pieter  
; APPLICANT: Lusia, Aldons J.

; APPLICANT: Ohmen, Jeff  
; APPLICANT: Ross, David  
; APPLICANT: Tafuri, Sherrie  
; APPLICANT: Wu, Chenyan  
; TITLE OF INVENTION: Gene and Sequence Variation Associated with Cancer  
; FILE REFERENCE: 02810.0014.NPUS02  
; CURRENT APPLICATION NUMBER: US/09/949,427  
; CURRENT FILING DATE: 2001-09-07  
; PRIOR APPLICATION NUMBER: 60/231,322  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 405  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 97  
; LENGTH: 21  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic Primer  
US-09-949-427-97

Query Match 0.6%; Score 17; DB 1; Length 21;  
Best Local Similarity 100.0%; Pred. No. 1.8e+02;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 65 TGCCTCAACCTTCTGAG 81  
|||||  
Db 20 TGCCTCAACCTTCTGAG 4

RESULT 215  
US-09-949-428-97/c  
; Sequence 97, Application US/09949428  
; Publication No. US20030064372A1  
; GENERAL INFORMATION:  
; APPLICANT: Bodnar, Jackie S.  
; APPLICANT: Castellani, Lawrence W.  
; APPLICANT: Chatterjee, Aurobindo  
; APPLICANT: de Jong, Pieter  
; APPLICANT: Lusia, Aldons J.  
; APPLICANT: Ohmen, Jeff  
; APPLICANT: Ross, David  
; APPLICANT: Tafuri, Sherrie  
; APPLICANT: Wu, Chenyan  
; TITLE OF INVENTION: Gene and Sequence Variation Associated with Lipid Disorder  
; FILE REFERENCE: 02810.0014.NPUS01  
; CURRENT APPLICATION NUMBER: US/09/949,428  
; CURRENT FILING DATE: 2001-09-07  
; PRIOR APPLICATION NUMBER: 60/231,322  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 405  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 97  
; LENGTH: 21  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic Primer  
US-09-949-428-97

Query Match 0.6%; Score 17; DB 1; Length 21;  
Best Local Similarity 100.0%; Pred. No. 1.8e+02;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 65 TGCCTCAACCTTCTGAG 81  
|||||  
Db 20 TGCCTCAACCTTCTGAG 4

RESULT 216  
US-09-776-479-243  
; Sequence 243, Application US/09776479  
; Publication No. US20030087848A1  
; GENERAL INFORMATION:

```
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouron, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; TITLE OF INVENTION: Treatment of Asthma and Allergy
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 243
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-243

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 652 GGCAGCGCGCGCGCGCGG 671
Db 1 GCGCGCGCGCGCGCGCGG 20

RESULT 217
US-09-776-479-257/c
; Sequence 257, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; TITLE OF INVENTION: Treatment of Asthma and Allergy
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 257
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-257

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 206 GGGGGGGTGGGTGGGGGGG 225
Db 20 GGGGGGGGGGGGGGGGGGG 1

RESULT 218
US-09-776-479-530/c
; Sequence 530, Application US/09776479
; Publication No. US20040067902A9
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; TITLE OF INVENTION: Treatment of Asthma and Allergy
```

```
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 530
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-530

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 206 GGGGGGGTGGGTGGGGGGG 225
Db 20 GGGGGGGGGGGGGGGGGGG 1

RESULT 219
US-09-776-479-531
; Sequence 531, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; TITLE OF INVENTION: Treatment of Asthma and Allergy
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 531
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-531

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 206 GGGGGGGTGGGTGGGGGGG 225
Db 1 GGGGGGGGGGGGGGGGGGG 20

RESULT 220
US-09-776-479-531
; Sequence 531, Application US/09776479
; Publication No. US20040067902A9
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; TITLE OF INVENTION: Treatment of Asthma and Allergy
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
```

; NUMBER OF SEQ ID NOS: 1093  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 531  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic Sequence  
US-09-776-479-531

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.7e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGGG 225  
Db 1 GGGGGGGGGGGGGGGGGGG 20

## RESULT 221

US-09-776-479-811/c  
; Sequence 811, Application US/09776479  
; Publication No. US20030087848A1  
; GENERAL INFORMATION:  
; APPLICANT: Bratzler, Robert L.  
; APPLICANT: Petersen, Deanna M.  
; APPLICANT: Fouron, Yves  
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the  
; TITLE OF INVENTION: Treatment of Asthma and Allergy  
; FILE REFERENCE: C1037/7013 (HCL/MAT)  
; CURRENT APPLICATION NUMBER: US/09/776,479  
; CURRENT FILING DATE: 2001-02-02  
; PRIOR APPLICATION NUMBER: US 60/179,991  
; PRIOR FILING DATE: 2000-02-03  
; NUMBER OF SEQ ID NOS: 1093  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 811  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic Sequence  
US-09-776-479-811

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.7e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGGG 225  
Db 20 GGGGGGGGGGGGGGGGGGG 1

## RESULT 222

US-09-776-479-987  
; Sequence 987, Application US/09776479  
; Publication No. US20040067902A9  
; GENERAL INFORMATION:  
; APPLICANT: Bratzler, Robert L.  
; APPLICANT: Petersen, Deanna M.  
; APPLICANT: Fouron, Yves  
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the  
; TITLE OF INVENTION: Treatment of Asthma and Allergy  
; FILE REFERENCE: C1037/7013 (HCL/MAT)  
; CURRENT APPLICATION NUMBER: US/09/776,479  
; CURRENT FILING DATE: 2001-02-02  
; PRIOR APPLICATION NUMBER: US 60/179,991  
; PRIOR FILING DATE: 2000-02-03  
; NUMBER OF SEQ ID NOS: 1093  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 987  
; LENGTH: 20  
; TYPE: DNA

; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic Sequence  
US-09-776-479-987

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.7e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGGG 225  
Db 1 GGGGGGGGGGGGGGGGGGG 20

## RESULT 223

US-09-800-266A-133  
; Sequence 133, Application US/09800266A  
; Patent No. US20020156033A1  
; GENERAL INFORMATION:  
; APPLICANT: Bratzler, Robert L.  
; APPLICANT: Petersen, Deanna M.  
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and  
; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of  
; TITLE OF INVENTION: Cancer  
; FILE REFERENCE: C1037/7017 (HCL/MAT)  
; CURRENT APPLICATION NUMBER: US/09/800,266A  
; CURRENT FILING DATE: 2001-03-05  
; PRIOR APPLICATION NUMBER: US 60/187,214  
; PRIOR FILING DATE: 2000-03-03  
; NUMBER OF SEQ ID NOS: 146  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 133  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic Sequence  
US-09-800-266A-133

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.7e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGGG 225  
Db 1 GGGGGGGGGGGGGGGGGGG 20

## RESULT 224

US-09-888-326-168/c  
; Sequence 168, Application US/09888326  
; Publication No. US20030026801A1  
; GENERAL INFORMATION:  
; APPLICANT: Weiner, George  
; APPLICANT: Hartmann, Gunther  
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced  
; TITLE OF INVENTION: Cell Lysis and Treating Cancer  
; FILE REFERENCE: C1039/7052 (AMS)  
; CURRENT APPLICATION NUMBER: US/09/888,326  
; CURRENT FILING DATE: 2001-06-22  
; PRIOR APPLICATION NUMBER: US 60/213,346  
; PRIOR FILING DATE: 2000-06-22  
; NUMBER OF SEQ ID NOS: 848  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 168  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic oligonucleotide  
; NAME/KEY: misc.feature  
; LOCATION: (0)...(0)  
; OTHER INFORMATION: phosphorothioate backbone

US-09-888-326-168

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.7e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGGG 225  
||||| ||||| |||||  
DB 20 GGGGGGGGGGGGGGGGGG 1

RESULT 225

US-09-888-326-169/c  
; Sequence 169, Application US/09888326  
; Publication No. US20030026801A1  
; GENERAL INFORMATION:  
; APPLICANT: Weiner, George  
; APPLICANT: Hartmann, Gunther  
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced  
; TITLE OF INVENTION: Cell Lysis and Treating Cancer  
; FILE REFERENCE: C1039/7052 (AWS)  
; CURRENT APPLICATION NUMBER: US/09/888,326  
; CURRENT FILING DATE: 2001-06-22  
; PRIOR APPLICATION NUMBER: US 60/213,346  
; PRIOR FILING DATE: 2000-06-22  
; NUMBER OF SEQ ID NOS: 848  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 169  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic oligonucleotide  
; NAME/KEY: misc\_feature  
; LOCATION: (0)...(0)  
; OTHER INFORMATION: chimeric phosphorothioate/phosphodiester backbone  
; OTHER INFORMATION: with phosphorothioate at 5' and 3' ends  
US-09-888-326-169

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.7e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGGG 225  
||||| ||||| |||||  
DB 20 GGGGGGGGGGGGGGGGGG 1

RESULT 226

US-09-888-326-410  
; Sequence 410, Application US/09888326  
; Publication No. US20030026801A1  
; GENERAL INFORMATION:  
; APPLICANT: Weiner, George  
; APPLICANT: Hartmann, Gunther  
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced  
; TITLE OF INVENTION: Cell Lysis and Treating Cancer  
; FILE REFERENCE: C1039/7052 (AWS)  
; CURRENT APPLICATION NUMBER: US/09/888,326  
; CURRENT FILING DATE: 2001-06-22  
; PRIOR APPLICATION NUMBER: US 60/213,346  
; PRIOR FILING DATE: 2000-06-22  
; NUMBER OF SEQ ID NOS: 848  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 410  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic oligonucleotide  
; NAME/KEY: misc\_feature  
; LOCATION: (0)...(0)  
; OTHER INFORMATION: phosphodiester backbone

US-09-888-326-410

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.7e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGGGCGG 671  
||||| ||||| ||||| |||||  
DB 1 GCGGCGCGCGCGCGCGCG 20

RESULT 227

US-09-888-326-429  
; Sequence 429, Application US/09888326  
; Publication No. US20030026801A1  
; GENERAL INFORMATION:  
; APPLICANT: Weiner, George  
; APPLICANT: Hartmann, Gunther  
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced  
; TITLE OF INVENTION: Cell Lysis and Treating Cancer  
; FILE REFERENCE: C1039/7052 (AWS)  
; CURRENT APPLICATION NUMBER: US/09/888,326  
; CURRENT FILING DATE: 2001-06-22  
; PRIOR APPLICATION NUMBER: US 60/213,346  
; PRIOR FILING DATE: 2000-06-22  
; NUMBER OF SEQ ID NOS: 848  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 429  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic oligonucleotide  
; NAME/KEY: misc\_feature  
; LOCATION: (0)...(0)  
; OTHER INFORMATION: chimeric phosphorothioate/phosphodiester backbone  
; OTHER INFORMATION: with phosphorothioate at 5' and 3' ends  
US-09-888-326-429

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.7e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGGG 225  
||||| ||||| ||||| |||||  
DB 1 GCGGCGCGCGCGCGCGCG 20

RESULT 228

US-09-888-326-430  
; Sequence 430, Application US/09888326  
; Publication No. US20030026801A1  
; GENERAL INFORMATION:  
; APPLICANT: Weiner, George  
; APPLICANT: Hartmann, Gunther  
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced  
; TITLE OF INVENTION: Cell Lysis and Treating Cancer  
; FILE REFERENCE: C1039/7052 (AWS)  
; CURRENT APPLICATION NUMBER: US/09/888,326  
; CURRENT FILING DATE: 2001-06-22  
; PRIOR APPLICATION NUMBER: US 60/213,346  
; PRIOR FILING DATE: 2000-06-22  
; NUMBER OF SEQ ID NOS: 848  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 430  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic oligonucleotide  
; NAME/KEY: misc\_feature  
; LOCATION: (0)...(0)  
; OTHER INFORMATION: phosphodiester backbone



US-09-888-326-430

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.7e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGTGGGGGG 225  
||||| ||||| ||||| |||||  
Db 1 GGGGGGGGGGGGGGGGGG 20

RESULT 229

US-09-895-007A-133  
; Sequence 133, Application US/09895007A  
; Patent No. US20020165178A1  
; GENERAL INFORMATION:  
; APPLICANT: Schetter, Christian  
; APPLICANT: Bratzler, Robert L.  
; APPLICANT: Petersen, Deanna M.  
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE  
; FILE OF INVENTION: TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA  
; FILE REFERENCE: C1041/7014 (AWS)  
; CURRENT APPLICATION NUMBER: US/09/895,007A  
; CURRENT FILING DATE: 2001-06-28  
; PRIOR APPLICATION NUMBER: US 60/214,368  
; PRIOR FILING DATE: 2000-06-28  
; NUMBER OF SEQ ID NOS: 133  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 133  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic oligonucleotide  
US-09-895-007A-133

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.7e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGTGGGGGGG 225  
||||| ||||| ||||| |||||  
Db 1 GGGGGGGGGGGGGGGGGG 20

RESULT 230

US-09-916-369A-2/c  
; Sequence 2, Application US/09916369A  
; Publication No. US20020058802A1  
; GENERAL INFORMATION:  
; APPLICANT: Dellinger, Douglas J  
; APPLICANT: Perbost, Michael GM  
; APPLICANT: Caruthers, Marvin H  
; APPLICANT: Betley, Jason R  
; TITLE OF INVENTION: Synthesis of Polynucleotides Using Combined Oxidation/Deprotection  
; FILE OF INVENTION: Chemistry  
; FILE REFERENCE: 10003869-1  
; CURRENT APPLICATION NUMBER: US/09/916,369A  
; CURRENT FILING DATE: 2001-07-21  
; PRIOR APPLICATION NUMBER: US 09/627,249  
; PRIOR FILING DATE: 2000-07-28  
; NUMBER OF SEQ ID NOS: 9  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 2  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: artificial sequence  
; FEATURE:  
; OTHER INFORMATION: synthetic sequence  
US-09-916-369A-2

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.7e+02;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 207 GGGGGGTGGGTGGGGGGA 226  
||||| ||||| ||||| |||||  
Db 20 GGGGGGGGGGGGGGGGGA 1

RESULT 231

US-09-920-313-133  
; Sequence 133, Application US/09920313  
; Publication No. US20020198165A1  
; GENERAL INFORMATION:  
; APPLICANT: Bratzler, Robert L.  
; APPLICANT: Petersen, Deanna M.  
; TITLE OF INVENTION: Nucleic Acids for the Prevention and  
; TITLE OF INVENTION: Treatment of Gastric Ulcers  
; FILE REFERENCE: C1037/7019 (HCL/MAT)  
; CURRENT APPLICATION NUMBER: US/09/920,313  
; CURRENT FILING DATE: 2001-08-01  
; PRIOR APPLICATION NUMBER: US 60/222,248  
; PRIOR FILING DATE: 2001-08-08  
; NUMBER OF SEQ ID NOS: 148  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 133  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic Sequence  
US-09-920-313-133

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.7e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGTGGGGGGG 225  
||||| ||||| ||||| |||||  
Db 1 GGGGGGGGGGGGGGGGGG 20

RESULT 232

US-09-965-101-55/c  
; Sequence 55, Application US/09965101  
; Publication No. US20040186067A1  
; GENERAL INFORMATION:  
; APPLICANT: Davis, Heather L.  
; APPLICANT: Krieg, Arthur M.  
; APPLICANT: Schorr, Joachim  
; APPLICANT: Wu, Tong  
; TITLE OF INVENTION: Vectors and Methods for Immunization or  
; FILE OF INVENTION: Therapeutic Protocols  
; FILE REFERENCE: C1039/7057 (HCL/MAT)  
; CURRENT APPLICATION NUMBER: US/09/965,101  
; CURRENT FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: US 09/082,649  
; PRIOR FILING DATE: 1998-05-20  
; PRIOR APPLICATION NUMBER: US 60/047,233  
; PRIOR FILING DATE: 1997-05-20  
; PRIOR APPLICATION NUMBER: US 60/047,209  
; PRIOR FILING DATE: 1997-05-20  
; NUMBER OF SEQ ID NOS: 84  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 55  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: synthetic oligonucleotide  
US-09-965-101-55

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.7e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGGTGGGGGG 225  
| | | | | | | | | | | | | | |  
Db 20 GGGGGGGGGGGGGGGGGGG 1

RESULT 233  
US-09-965-101-57  
; Sequence 57, Application US/09965101  
; Publication No. US20040186067A1  
; GENERAL INFORMATION:  
; APPLICANT: Davis, Heather L.  
; APPLICANT: Krieg, Arthur M.  
; APPLICANT: Schorr, Joachim  
; APPLICANT: Wu, Tong  
; TITLE OF INVENTION: Vectors and Methods for Immunization or  
; TITLE OF INVENTION: Therapeutic Protocols  
; FILE REFERENCE: C1039/7057 (HCL/MAT)  
; CURRENT APPLICATION NUMBER: US/09/965,101  
; CURRENT FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: US 09/082,649  
; PRIOR FILING DATE: 1998-05-20  
; PRIOR APPLICATION NUMBER: US 60/047,233  
; PRIOR FILING DATE: 1997-05-20  
; PRIOR APPLICATION NUMBER: US 60/047,209  
; PRIOR FILING DATE: 1997-05-20  
; NUMBER OF SEQ ID NOS: 84  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 57  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: synthetic oligonucleotide  
US-09-965-101-57

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.7e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGGGGGGG 671  
| | | | | | | | | | | | | | |  
Db 1 GCGCGCGCGCGGGGGGGGG 20

RESULT 234  
US-09-994-701B-7/c  
; Sequence 7, Application US/09994701B  
; Publication No. US20040152076A1  
; GENERAL INFORMATION:  
; APPLICANT: Richard C. Willson and Jason C. Murphy  
; TITLE OF INVENTION: NUCLEIC ACID SEPARATION USING IMMOBILIZED METAL AFFINITY CHROMATO  
; FILE REFERENCE: 96605/13UTL  
; CURRENT APPLICATION NUMBER: US/09/994,701B  
; CURRENT FILING DATE: 2001-11-06  
; PRIOR APPLICATION NUMBER: 60/246292  
; PRIOR FILING DATE: 2000-11-06  
; NUMBER OF SEQ ID NOS: 8  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 7  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: Synthetic Oligonucleotide Sequence  
US-09-994-701B-7

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.7e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGGTGGGGGG 225  
| | | | | | | | | | | | | | |

Db 20 GGGGGGGGGGGGGGGGGGG 1

RESULT 235  
US-09-994-701B-8  
; Sequence 8, Application US/09994701B  
; Publication No. US20040152076A1  
; GENERAL INFORMATION:  
; APPLICANT: Richard C. Willson and Jason C. Murphy  
; TITLE OF INVENTION: NUCLEIC ACID SEPARATION USING IMMOBILIZED METAL AFFINITY CHROMATO  
; FILE REFERENCE: 96605/13UTL  
; CURRENT APPLICATION NUMBER: US/09/994,701B  
; CURRENT FILING DATE: 2001-11-06  
; PRIOR APPLICATION NUMBER: 60/246292  
; PRIOR FILING DATE: 2000-11-06  
; NUMBER OF SEQ ID NOS: 8  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 8  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: Synthetic Oligonucleotide Sequence  
US-09-994-701B-8

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.7e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGGTGGGGGG 225  
| | | | | | | | | | | | | | |  
Db 1 GCGGGGGGGGGGGGGGGGGG 20

RESULT 236  
US-10-017-995-243  
; Sequence 243, Application US/10017995  
; Publication No. US20030055014A1  
; GENERAL INFORMATION:  
; APPLICANT: Bratzler, Robert L.  
; TITLE OF INVENTION: Inhibition of Angiogenesis by Nucleic Acids  
; FILE REFERENCE: C1037/7025 (HCL/MAT)  
; CURRENT APPLICATION NUMBER: US/10/017,995  
; CURRENT FILING DATE: 2001-12-18  
; PRIOR APPLICATION NUMBER: US 60/255,534  
; PRIOR FILING DATE: 2000-12-14  
; NUMBER OF SEQ ID NOS: 1093  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 243  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic Sequence  
US-10-017-995-243

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.7e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGGGGGGG 671  
| | | | | | | | | | | | | | |  
Db 1 GCGCGCGCGCGGGGGGGGG 20

RESULT 237  
US-10-017-995-257/c  
; Sequence 257, Application US/10017995  
; Publication No. US20030055014A1  
; GENERAL INFORMATION:  
; APPLICANT: Bratzler, Robert L.  
; TITLE OF INVENTION: Inhibition of Angiogenesis by Nucleic Acids  
; FILE REFERENCE: C1037/7025 (HCL/MAT)

```
; CURRENT APPLICATION NUMBER: US/10/017,995
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US 60/255,534
; PRIOR FILING DATE: 2000-12-14
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 257
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-10-017-995-257

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGTGGGGGGG 225
Db 20 GGGGGGGGGGGGGGGGGG 1

RESULT 238
US-10-017-995-530/c
; Sequence 530, Application US/10017995
; Publication No. US20030055014A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; TITLE OF INVENTION: Inhibition of Angiogenesis by Nucleic Acids
; FILE REFERENCE: C1037/7025 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/017,995
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US 60/255,534
; PRIOR FILING DATE: 2000-12-14
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 530
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-10-017-995-530

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGTGGGGGGG 225
Db 20 GGGGGGGGGGGGGGGGGG 1

RESULT 239
US-10-017-995-531
; Sequence 531, Application US/10017995
; Publication No. US20030055014A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; TITLE OF INVENTION: Inhibition of Angiogenesis by Nucleic Acids
; FILE REFERENCE: C1037/7025 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/017,995
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US 60/255,534
; PRIOR FILING DATE: 2000-12-14
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 531
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-10-017-995-531

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGTGGGGGGG 225
Db 20 GGGGGGGGGGGGGGGGGG 1

RESULT 240
US-10-017-995-811/c
; Sequence 811, Application US/10017995
; Publication No. US20030055014A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; TITLE OF INVENTION: Inhibition of Angiogenesis by Nucleic Acids
; FILE REFERENCE: C1037/7025 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/017,995
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US 60/255,534
; PRIOR FILING DATE: 2000-12-14
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 811
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-10-017-995-811

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGTGGGGGGG 225
Db 20 GGGGGGGGGGGGGGGGGG 1

RESULT 241
US-10-017-995-987
; Sequence 987, Application US/10017995
; Publication No. US20030055014A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; TITLE OF INVENTION: Inhibition of Angiogenesis by Nucleic Acids
; FILE REFERENCE: C1037/7025 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/017,995
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US 60/255,534
; PRIOR FILING DATE: 2000-12-14
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 987
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-10-017-995-987

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGTGGGGGGG 225
Db 20 GGGGGGGGGGGGGGGGGG 1
```

```
RESULT 242
US-10-077-383-7/c
; Sequence 7, Application US/10077383
; Publication No. US20030050444A1
; GENERAL INFORMATION:
; APPLICANT: Haydock, Paul V.
; APPLICANT: U'Ren, Jack
; APPLICANT: Saigene Corporation
; TITLE OF INVENTION: Nucleic Acid Amplification Using an RNA Polymerase and
; DNA/RNA Mixed Polymer Intermediate Products
; FILE REFERENCE: 018048-001710US
; CURRENT APPLICATION NUMBER: US/10/077,383
; CURRENT FILING DATE: 2002-02-15
; PRIOR APPLICATION NUMBER: US 60/296,812
; PRIOR FILING DATE: 2001-06-07
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:(C)-12-20
; OTHER INFORMATION: homopolymer spacer sequence
; NAME/KEY: modified base
; LOCATION: (13)..(20)
; OTHER INFORMATION: c at positions 13-20 may be present or absent
US-10-077-383-7

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 206 GGGGGGGTGGGTGGGGGG 225
Db 20 GGGGGGGGGGGGGGGGGGG 1

RESULT 243
US-10-077-383-8
; Sequence 8, Application US/10077383
; Publication No. US20030050444A1
; GENERAL INFORMATION:
; APPLICANT: Haydock, Paul V.
; APPLICANT: U'Ren, Jack
; APPLICANT: Saigene Corporation
; TITLE OF INVENTION: Nucleic Acid Amplification Using an RNA Polymerase and
; DNA/RNA Mixed Polymer Intermediate Products
; FILE REFERENCE: 018048-001710US
; CURRENT APPLICATION NUMBER: US/10/077,383
; CURRENT FILING DATE: 2002-02-15
; PRIOR APPLICATION NUMBER: US 60/296,812
; PRIOR FILING DATE: 2001-06-07
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:(G)-12-20
; OTHER INFORMATION: homopolymer spacer sequence
; NAME/KEY: modified base
; LOCATION: (13)..(20)
; OTHER INFORMATION: g at positions 13-20 may be present or absent
US-10-077-383-8

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 206 GGGGGGGTGGGTGGGGGG 225
Db 20 GGGGGGGGGGGGGGGGGGG 1

RESULT 244
US-10-112-653-235
; Sequence 235, Application US/10112653
; Publication No. US20030050268A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Daniel J.
; APPLICANT: Berg, Arthur M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR
; TREATMENT OF NON-ALLERGIC INFLAMMATORY DISEASES
; FILE REFERENCE: C01039/70060(AWS)
; CURRENT APPLICATION NUMBER: US/10/112,653
; CURRENT FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 235
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-112-653-235

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 652 GGCAGCAGCGCGCGCGCGG 671
Db 1 GCGCGCGCGCGCGCGCGCGG 20

RESULT 245
US-10-112-653-248/c
; Sequence 248, Application US/10112653
; Publication No. US20030050268A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Daniel J.
; APPLICANT: Berg, Arthur M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR
; TREATMENT OF NON-ALLERGIC INFLAMMATORY DISEASES
; FILE REFERENCE: C01039/70060(AWS)
; CURRENT APPLICATION NUMBER: US/10/112,653
; CURRENT FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 248
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-112-653-248

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 206 GGGGGGGTGGGTGGGGGG 225
Db 20 GGGGGGGGGGGGGGGGGGG 1

RESULT 246
```

```
US-10-112-653-507/c
; Sequence 507, Application US/10112653
; Publication No. US20030050268A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR
; FILE REFERENCE: C01039/70060 (AWS)
; CURRENT APPLICATION NUMBER: US/10/112,653
; CURRENT FILING DATE: 2002-03-29
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 507
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-112-653-507

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGGTGGGGGGG 225
Db 20 GGGGGGGGGGGGGGGGGGGG 1

RESULT 247
US-10-112-653-508
; Sequence 508, Application US/10112653
; Publication No. US20030050268A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR
; FILE REFERENCE: C01039/70060 (AWS)
; CURRENT APPLICATION NUMBER: US/10/112,653
; CURRENT FILING DATE: 2002-03-29
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 508
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-112-653-508

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGGTGGGGGGG 225
Db 1 GGGGGGGGGGGGGGGGGGGG 20

RESULT 248
US-10-305-810-19/c
; Sequence 19, Application US/10305810
; Publication No. US20030176385A1
; GENERAL INFORMATION:
; APPLICANT: Ju, Jingfang
; APPLICANT: Huang, Chunli
; APPLICANT: Zhong, Haihong
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; APPLICANT: Simons, Jan Fredrik
; APPLICANT: Tailon, Bruce E.
; APPLICANT: Chant, John S.
; APPLICANT: Peyman, John A.
; APPLICANT: Smithson, Glennda
; APPLICANT: Millet, Isabelle
; TITLE OF INVENTION: ANTISENSE MODULATION OF PROTEIN EXPRESSION
; FILE REFERENCE: 21402-501
; CURRENT APPLICATION NUMBER: US/10/305,810
; CURRENT FILING DATE: 2002-11-27
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: 60/334,148
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 60/336,572
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 09/625,634
; PRIOR FILING DATE: 2000-07-26
; PRIOR APPLICATION NUMBER: 60/192,838
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 60/194,256
; PRIOR FILING DATE: 2000-04-03
; PRIOR APPLICATION NUMBER: 09/957,187
; PRIOR FILING DATE: 2001-09-19
; PRIOR APPLICATION NUMBER: 60/233,798
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 09/970,813
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/182,637
; PRIOR FILING DATE: 2000-02-15
; PRIOR APPLICATION NUMBER: 60/240,316
; PRIOR FILING DATE: 2000-10-13
; REMAINING PRIOR APPLICATION DATA REMOVED - SEE FILE WRAPPER OR PALM.
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 19
; LENGTH: 20
; TYPE: DNA
; ORGANISM: CG50249-01-AS3
US-10-305-810-19

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 539 ATGAGACCTACCGCAGCACC 558
Db 20 ACGAAACCTACCGCAGCACC 1

RESULT 249
US-10-314-578-243
; Sequence 243, Application US/10314578
; Publication No. US20030212026A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Vollmer, Jorg
; APPLICANT: Schetter, Christian
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids
; FILE REFERENCE: C1039/7035 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/314,578
; CURRENT FILING DATE: 2002-12-09
; PRIOR FILING DATE: 1999-09-25
; PRIOR APPLICATION NUMBER: US 60/156,113
; PRIOR FILING DATE: 1999-09-27
; PRIOR APPLICATION NUMBER: US 60/227,436
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 1145
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 243
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
```

```
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-10-314-578-243

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGCGCGG 671
      ||||| ||||| |||||
Db 1 GCGCGCGCGCGCGCGCGG 20

RESULT 250
US-10-314-578-257/c
; Sequence 257, Application US/10314578
; Publication No. US20030212026A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schetter, Christian
; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids
; FILE REFERENCE: C1039/7035 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/314,578
; CURRENT FILING DATE: 2002-12-09
; PRIOR APPLICATION NUMBER: US 60/156,113
; PRIOR FILING DATE: 1999-09-25
; PRIOR APPLICATION NUMBER: US 60/156,135
; PRIOR FILING DATE: 1999-09-27
; PRIOR APPLICATION NUMBER: US 60/227,436
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 1145
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 257
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-10-314-578-257

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GCGCGCGGTGGGTGGCGGGG 225
      ||||| ||||| |||||
Db 20 GCGCGCGGTGGGTGGCGGGG 1

RESULT 251
US-10-314-578-530/c
; Sequence 530, Application US/10314578
; Publication No. US20030212026A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schetter, Christian
; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids
; FILE REFERENCE: C1039/7035 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/314,578
; CURRENT FILING DATE: 2002-12-09
; PRIOR APPLICATION NUMBER: US 60/156,113
; PRIOR FILING DATE: 1999-09-25
; PRIOR APPLICATION NUMBER: US 60/156,135
; PRIOR FILING DATE: 1999-09-27
; PRIOR APPLICATION NUMBER: US 60/227,436
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 1145
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 530
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
```

```
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-10-314-578-530

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GCGCGCGGTGGGTGGCGGGG 225
      ||||| ||||| |||||
Db 20 GCGCGCGGTGGGTGGCGGGG 1

RESULT 252
US-10-314-578-531
; Sequence 531, Application US/10314578
; Publication No. US20030212026A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schetter, Christian
; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids
; FILE REFERENCE: C1039/7035 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/314,578
; CURRENT FILING DATE: 2002-12-09
; PRIOR APPLICATION NUMBER: US 60/156,113
; PRIOR FILING DATE: 1999-09-25
; PRIOR APPLICATION NUMBER: US 60/156,135
; PRIOR FILING DATE: 1999-09-27
; PRIOR APPLICATION NUMBER: US 60/227,436
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 1145
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 531
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-10-314-578-531

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GCGCGCGGTGGGTGGCGGGG 225
      ||||| ||||| |||||
Db 1 GCGCGCGGTGGGTGGCGGGG 20

RESULT 253
US-10-314-578-811/c
; Sequence 811, Application US/10314578
; Publication No. US20030212026A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schetter, Christian
; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids
; FILE REFERENCE: C1039/7035 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/314,578
; CURRENT FILING DATE: 2002-12-09
; PRIOR APPLICATION NUMBER: US 60/156,113
; PRIOR FILING DATE: 1999-09-25
; PRIOR APPLICATION NUMBER: US 60/156,135
; PRIOR FILING DATE: 1999-09-27
; PRIOR APPLICATION NUMBER: US 60/227,436
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 1145
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 811
; LENGTH: 20
; TYPE: DNA
```

; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic Sequence  
US-10-314-578-811

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.7e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 206 GGGGGGGTGGGGTGGGGGGG 225  
||||| ||||| ||||| |||||  
Db 20 GGGGGGGGGGGGGGGGGGG 1

RESULT 254  
US-10-314-578-987  
; Sequence 987, Application US/10314578  
; Publication No. US20030212026A1  
; GENERAL INFORMATION:  
; APPLICANT: Krieg, Arthur M.  
; APPLICANT: Schetter, Christian  
; APPLICANT: Vollmer, Jorg  
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids  
; FILE REFERENCE: C1039/7035 (HCE/MAT)  
; CURRENT APPLICATION NUMBER: US/10/314,578  
; CURRENT FILING DATE: 2002-12-09  
; PRIOR FILING DATE: US 60/156,113  
; PRIOR FILING DATE: 1999-09-25  
; PRIOR FILING DATE: US 60/156,135  
; PRIOR FILING DATE: 1999-09-27  
; PRIOR FILING DATE: US 60/227,436  
; PRIOR FILING DATE: 2000-08-23  
; NUMBER OF SEQ ID NOS: 1145  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 987  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic Sequence  
US-10-314-578-987

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.7e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 206 GGGGGGGTGGGGTGGGGGGG 225  
||||| ||||| ||||| |||||  
Db 1 GGGGGGGGGGGGGGGGGGG 20

RESULT 255  
US-10-371-474-63  
; Sequence 63, Application US/10371474  
; Publication No. US20030144242A1  
; GENERAL INFORMATION:  
; APPLICANT: Donna T. Ward  
; APPLICANT: William Gaarde  
; APPLICANT: Brett P. Monia  
; APPLICANT: Jacqueline Wyatt  
; TITLE OF INVENTION: ANTISENSE MODULATION OF MEK4 EXPRESSION  
; FILE REFERENCE: RTS-0169  
; CURRENT APPLICATION NUMBER: US/10/371,474  
; CURRENT FILING DATE: 2003-02-21  
; PRIOR FILING DATE: US/09/676,436  
; PRIOR FILING DATE: 2000-09-29  
; NUMBER OF SEQ ID NOS: 89  
; SEQ ID NO 63  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense Oligonucleotide

US-10-371-474-63

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.7e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 644 GCAGCAGCGCAGCAGCGGC 663  
||||| ||||| ||||| |||||  
Db 1 GCAGCAGCAGCAGCAGCAGC 20

RESULT 256  
US-10-388-329-1/c  
; Sequence 1, Application US/10388329  
; Publication No. US2004002093A1  
; GENERAL INFORMATION:  
; APPLICANT: SHI, LIANG  
; TITLE OF INVENTION: NUCLEIC ACID DETECTION METHOD  
; FILE REFERENCE: 109845.191US2; TMRI-020US  
; CURRENT APPLICATION NUMBER: US/10/388,329  
; CURRENT FILING DATE: 2003-03-13  
; PRIOR APPLICATION NUMBER: 60/364,230  
; PRIOR FILING DATE: 2002-03-13  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
; OTHER INFORMATION: oligonucleotide  
US-10-388-329-1

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.7e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 206 GGGGGGGTGGGGTGGGGGGG 225  
||||| ||||| ||||| |||||  
Db 20 GGGGGGGGGGGGGGGGGGG 1

RESULT 257  
US-10-433-899-8/c  
; Sequence 8, Application US/10433899  
; Publication No. US20040126772A1  
; GENERAL INFORMATION:  
; APPLICANT: HAYASHIZAKI, Yoshihide  
; APPLICANT: ONO, Tetsuyoshi  
; TITLE OF INVENTION: METHOD FOR MALDI-TOF-MS ANALYSIS AND/OR SEQUENCING OF OLIGONUCLEOTIDES  
; FILE REFERENCE: 0045-0303P  
; CURRENT APPLICATION NUMBER: US/10/433,899  
; CURRENT FILING DATE: 2003-12-08  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 8  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic RNA 20mer  
; FEATURE:  
; NAME/KEY: modified base  
; LOCATION: (20)..(20)  
; OTHER INFORMATION: a T base is added onto the 3' end  
; FEATURE:  
; NAME/KEY: modified base  
; LOCATION: (1)..(20)  
; OTHER INFORMATION: each CTP has an Fluoro substituent at the 2' position of the sugar  
US-10-433-899-8

Query Match 0.6%; Score 16.8; DB 1; Length 20;





```
Db      1 GGGGGGGGGGGGGGGGGGGG 20

RESULT 264
US-10-661-099-14/c
; Sequence 14, Application US/10661099
; Publication No. US20040171568A1
; GENERAL INFORMATION:
; APPLICANT: VAILLANT, ANDREW
; APPLICANT: JUTEAU, JEAN-MARC
; TITLE OF INVENTION: ANTIVIRAL OLIGONUCLEOTIDES TARGETING HIV
; FILE REFERENCE: 029849/0203
; CURRENT APPLICATION NUMBER: US/10/661,099
; PRIOR FILING DATE: 2003-09-12
; PRIOR APPLICATION NUMBER: PCT/IB03/04573
; PRIOR FILING DATE: 2003-09-11
; PRIOR APPLICATION NUMBER: 60/430,934
; PRIOR FILING DATE: 2002-12-05
; PRIOR APPLICATION NUMBER: 60/410,264
; PRIOR FILING DATE: 2002-09-13
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 14
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
US-10-661-099-14

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      206 GGGGGGGTGGGGTGGGGGGG 225
        ||||| ||||| ||||| |||||
Db      20 GGGGGGGGGGGGGGGGGGGG 1

RESULT 265
US-10-661-355-13
; Sequence 13, Application US/10661355
; Publication No. US20040170959A1
; GENERAL INFORMATION:
; APPLICANT: VAILLANT, ANDREW
; APPLICANT: JUTEAU, JEAN-MARC
; TITLE OF INVENTION: ANTIVIRAL OLIGONUCLEOTIDES
; FILE REFERENCE: 029849/0208
; CURRENT APPLICATION NUMBER: US/10/661,355
; PRIOR FILING DATE: 2003-09-12
; PRIOR APPLICATION NUMBER: PCT/IB03/04573
; PRIOR FILING DATE: 2003-09-11
; PRIOR APPLICATION NUMBER: 60/430,934
; PRIOR FILING DATE: 2002-12-05
; PRIOR APPLICATION NUMBER: 60/410,264
; PRIOR FILING DATE: 2002-09-13
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 13
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
US-10-661-355-13

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      206 GGGGGGGTGGGGTGGGGGGG 225
        ||||| ||||| ||||| |||||
Db      20 GGGGGGGGGGGGGGGGGGGG 1

RESULT 263
US-10-661-099-13
; Sequence 13, Application US/10661099
; Publication No. US20040171568A1
; GENERAL INFORMATION:
; APPLICANT: VAILLANT, ANDREW
; APPLICANT: JUTEAU, JEAN-MARC
; TITLE OF INVENTION: ANTIVIRAL OLIGONUCLEOTIDES TARGETING HIV
; FILE REFERENCE: 029849/0203
; CURRENT APPLICATION NUMBER: US/10/661,099
; PRIOR FILING DATE: 2003-09-12
; PRIOR APPLICATION NUMBER: PCT/IB03/04573
; PRIOR FILING DATE: 2003-09-11
; PRIOR APPLICATION NUMBER: 60/430,934
; PRIOR FILING DATE: 2002-12-05
; PRIOR APPLICATION NUMBER: 60/410,264
; PRIOR FILING DATE: 2002-09-13
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 13
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
US-10-661-099-13

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      206 GGGGGGGTGGGGTGGGGGGG 225
        ||||| ||||| ||||| |||||
Db      20 GGGGGGGGGGGGGGGGGGGG 1

RESULT 266
US-10-661-355-13
; Sequence 13, Application US/10661355
; Publication No. US20040170959A1
; GENERAL INFORMATION:
; APPLICANT: VAILLANT, ANDREW
; APPLICANT: JUTEAU, JEAN-MARC
; TITLE OF INVENTION: ANTIVIRAL OLIGONUCLEOTIDES
; FILE REFERENCE: 029849/0208
; CURRENT APPLICATION NUMBER: US/10/661,355
; PRIOR FILING DATE: 2003-09-12
; PRIOR APPLICATION NUMBER: PCT/IB03/04573
; PRIOR FILING DATE: 2003-09-11
; PRIOR APPLICATION NUMBER: 60/430,934
; PRIOR FILING DATE: 2002-12-05
; PRIOR APPLICATION NUMBER: 60/410,264
; PRIOR FILING DATE: 2002-09-13
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 13
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
US-10-661-355-13

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      206 GGGGGGGTGGGGTGGGGGGG 225
        ||||| ||||| ||||| |||||
Db      20 GGGGGGGGGGGGGGGGGGGG 1
```

Db  
1 GGGGGGGGGGGGGGGGGGGG 20

```

RESULT 266
US-10-661-355-14/c
; Sequence 14, Application US/10661355
; Publication No. US20040170959A1
; GENERAL INFORMATION:
; APPLICANT: VAILLANT, ANDREW
; APPLICANT: JUTEAU, JEAN-WARC
; TITLE OF INVENTION: ANTIVIRAL OLIGONUCLEOTIDES
; FILE REFERENCE: 029849/0208
; CURRENT APPLICATION NUMBER: US/10/661,355
; CURRENT FILING DATE: 2003-09-12
; PRIOR APPLICATION NUMBER: PCT/IB03/04573
; PRIOR FILING DATE: 2003-09-11
; PRIOR APPLICATION NUMBER: 60/430,934
; PRIOR FILING DATE: 2002-12-05
; PRIOR APPLICATION NUMBER: 60/410,264
; PRIOR FILING DATE: 2002-09-13
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patentin Ver. 3.2
; SEQ ID NO 14
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial
; OTHER INFORMATION: oligonucleotide
US-10-661-355-14

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RESULT 267
US-10-661-402-13
; Sequence 13, Application US/10661402
; Publication No. US20050153912A1
; GENERAL INFORMATION:
; APPLICANT: VAILLANT, ANDREW
; APPLICANT: JUTEAU, JEAN-MARC
; TITLE OF INVENTION: ANTIVIRAL OLIGONUCLEOTIDES TARGETING VIRAL FAMILIES
; FILE REFERENCE: 029849/0207
; CURRENT APPLICATION NUMBER: US/10/661,402
; CURRENT FILING DATE: 2003-09-12
; PRIOR APPLICATION NUMBER: PCT/IB03/04573
; PRIOR FILING DATE: 2003-09-11
; PRIOR APPLICATION NUMBER: 60/430,934
; PRIOR FILING DATE: 2002-12-05
; PRIOR APPLICATION NUMBER: 60/410,264
; PRIOR FILING DATE: 2002-09-13
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn ver. 3.2
; SEQ ID NO 13
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
US-10-661-402-13

```

Qy 206 GGGGGGGTGGGTGGGGGG 225  
pb 1 GGGGGGGGGGGGGGGGGGGG 20

```

RESULT 268
US-10-661-402-14/c
; Sequence 14, Application US/10661402
; Publication No. US20050153912A1
; GENERAL INFORMATION:
; APPLICANT: VAILLANT, ANDREW
; APPLICANT: JUTEAU, JEAN-MARC
; TITLE OF INVENTION: ANTIVIRAL OLIGONUCLEOTIDES TARGETING VIRAL FAMILIES
; FILE REFERENCE: 029849/0207
; CURRENT APPLICATION NUMBER: US/10/661,402
; CURRENT FILING DATE: 2003-09-12
; PRIOR APPLICATION NUMBER: PCT/IB03/04573
; PRIOR FILING DATE: 2003-09-11
; PRIOR APPLICATION NUMBER: 60/430,934
; PRIOR FILING DATE: 2002-12-05
; PRIOR APPLICATION NUMBER: 60/410,264
; PRIOR FILING DATE: 2002-09-13
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 14
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
US-10-661-402-14

```

```

RESULT 269
US-10-661-403-13
; Sequence 13, Application US/10661403
; Publication No. US20050176661A1
; GENERAL INFORMATION:
; APPLICANT: VAILLANT, ANDREW
; APPLICANT: JUTEAU, JEAN-MARC
; TITLE OF INVENTION: ANTIVIRAL OLIGONUCLEOTIDES
; FILE REFERENCE: 029849/0202
; CURRENT APPLICATION NUMBER: US/10/661,403
; CURRENT FILING DATE: 2003-09-12
; PRIOR APPLICATION NUMBER: PCT/IB03/04573
; PRIOR FILING DATE: 2003-09-11
; PRIOR APPLICATION NUMBER: 60/430,934
; PRIOR FILING DATE: 2002-12-05
; PRIOR APPLICATION NUMBER: 60/410,264
; PRIOR FILING DATE: 2002-09-13
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn ver. 3.2
; SEQ ID NO 13
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
; US-10-661-403-13

```

```
Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      206 GGGGGGTGGGTGGGGGGG 225
          ||||| ||| |||||
Db      1   GGGGGGGGGGGGGGGGGG 20

RESULT 270
US-10-661-403-14/c
; Sequence 14, Application US/10661403
; Publication No. US20050176661A1
; GENERAL INFORMATION:
; APPLICANT: VAILLANT, ANDREW
; APPLICANT: JUTEAU, JEAN-MARC
; TITLE OF INVENTION: ANTIVIRAL OLIGONUCLEOTIDES
; FILE REFERENCE: 029849/0202
; CURRENT APPLICATION NUMBER: US/10/661,403
; CURRENT FILING DATE: 2003-09-12
; PRIOR APPLICATION NUMBER: PCT/IB03/04573
; PRIOR FILING DATE: 2003-09-11
; PRIOR APPLICATION NUMBER: 60/430,934
; PRIOR FILING DATE: 2002-12-05
; PRIOR APPLICATION NUMBER: 60/410,264
; PRIOR FILING DATE: 2002-09-13
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 14
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
US-10-661-403-14

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      206 GGGGGGTGGGTGGGGGGG 225
          ||||| ||| |||||
Db      20 GGGGGGGGGGGGGGGGGG 1

RESULT 271
US-10-661-415-13
; Sequence 13, Application US/10661415
; Publication No. US20040229828A1
; GENERAL INFORMATION:
; APPLICANT: VAILLANT, ANDREW
; APPLICANT: JUTEAU, JEAN-MARC
; TITLE OF INVENTION: ANTIVIRAL OLIGONUCLEOTIDES TARGETING RSV
; FILE REFERENCE: 029849/0205
; CURRENT APPLICATION NUMBER: US/10/661,415
; CURRENT FILING DATE: 2003-09-12
; PRIOR APPLICATION NUMBER: PCT/IB03/04573
; PRIOR FILING DATE: 2003-09-11
; PRIOR APPLICATION NUMBER: 60/430,934
; PRIOR FILING DATE: 2002-12-05
; PRIOR APPLICATION NUMBER: 60/410,264
; PRIOR FILING DATE: 2002-09-13
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 13
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
US-10-661-415-13

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      206 GGGGGGTGGGTGGGGGGG 225
          ||||| ||| |||||
Db      20 GGGGGGGGGGGGGGGGGG 1

RESULT 272
US-10-661-415-14/c
; Sequence 14, Application US/10661415
; Publication No. US20040229828A1
; GENERAL INFORMATION:
; APPLICANT: VAILLANT, ANDREW
; APPLICANT: JUTEAU, JEAN-MARC
; TITLE OF INVENTION: ANTIVIRAL OLIGONUCLEOTIDES TARGETING RSV
; FILE REFERENCE: 029849/0205
; CURRENT APPLICATION NUMBER: US/10/661,415
; CURRENT FILING DATE: 2003-09-12
; PRIOR APPLICATION NUMBER: PCT/IB03/04573
; PRIOR FILING DATE: 2003-09-11
; PRIOR APPLICATION NUMBER: 60/430,934
; PRIOR FILING DATE: 2002-12-05
; PRIOR APPLICATION NUMBER: 60/410,264
; PRIOR FILING DATE: 2002-09-13
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 14
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
US-10-661-415-14

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      206 GGGGGGTGGGTGGGGGGG 225
          ||||| ||| |||||
Db      20 GGGGGGGGGGGGGGGGGG 1

RESULT 273
US-10-666-733-133
; Sequence 133, Application US/10666733
; Publication No. US20040131628A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Treatment of
; FILE REFERENCE: C1037.70018US00
; CURRENT APPLICATION NUMBER: US/10/666,733
; CURRENT FILING DATE: 2003-09-19
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2003-09-19
; PRIOR APPLICATION NUMBER: US 09/801,839
; PRIOR FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: US 60/187,834
; PRIOR FILING DATE: 2000-03-08
; NUMBER OF SEQ ID NOS: 135
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 133
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-10-666-733-133

Query Match      0.6%; Score 16.8; DB 1; Length 20;
```



Best Local Similarity 90.0%; Pred. No. 1.7e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 206 GGGGGGGTGGGGTGGGGGGG 225  
||||| ||||| ||||| ||||| |||||

Db 1 GGGGGGGGGGGGGGGGGGGG 20

RESULT 278  
US-10-831-778-243  
; Sequence 243, Application US/10831778  
; Publication No. US20040235774A1  
; GENERAL INFORMATION:  
; APPLICANT: Bratzler, Robert L.  
; APPLICANT: Petersen, Deanna M.  
; APPLICANT: Fouron, Yves  
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the  
; TITLE OF INVENTION: Treatment of Asthma and Allergy  
; FILE REFERENCE: C1037/7013 (HCL/MAT)  
; CURRENT APPLICATION NUMBER: US/10/831,778  
; PRIOR FILING DATE: 2004-04-23  
; PRIOR APPLICATION NUMBER: US 60/179,991  
; NUMBER OF SEQ ID NOS: 1093  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 243  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic Sequence  
US-10-831-778-243

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.7e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 652 GGCAGCAGCGCGCGCGCGG 671  
||||| ||||| ||||| ||||| |||||

Db 1 GCGCGCGCGCGCGCGCGCGG 20

RESULT 279  
US-10-831-778-257/c  
; Sequence 257, Application US/10831778  
; Publication No. US20040235774A1  
; GENERAL INFORMATION:  
; APPLICANT: Bratzler, Robert L.  
; APPLICANT: Petersen, Deanna M.  
; APPLICANT: Fouron, Yves  
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the  
; TITLE OF INVENTION: Treatment of Asthma and Allergy  
; FILE REFERENCE: C1037/7013 (HCL/MAT)  
; CURRENT APPLICATION NUMBER: US/10/831,778  
; PRIOR FILING DATE: 2004-04-23  
; PRIOR APPLICATION NUMBER: US 60/179,991  
; NUMBER OF SEQ ID NOS: 1093  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 257  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic Sequence  
US-10-831-778-257

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.7e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 206 GGGGGGGTGGGGTGGGGGGG 225  
||||| ||||| ||||| ||||| |||||

Db 1 GGGGGGGGGGGGGGGGGGGG 20

RESULT 280  
US-10-831-778-530/c  
; Sequence 530, Application US/10831778  
; Publication No. US20040235774A1  
; GENERAL INFORMATION:  
; APPLICANT: Bratzler, Robert L.  
; APPLICANT: Petersen, Deanna M.  
; APPLICANT: Fouron, Yves  
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the  
; TITLE OF INVENTION: Treatment of Asthma and Allergy  
; FILE REFERENCE: C1037/7013 (HCL/MAT)  
; CURRENT APPLICATION NUMBER: US/10/831,778  
; PRIOR FILING DATE: 2004-04-23  
; PRIOR APPLICATION NUMBER: US 60/179,991  
; NUMBER OF SEQ ID NOS: 1093  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 530  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic Sequence  
US-10-831-778-530

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.7e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 206 GGGGGGGTGGGGTGGGGGGG 225  
||||| ||||| ||||| ||||| |||||

Db 20 GGGGGGGGGGGGGGGGGGGG 1

RESULT 281  
US-10-831-778-531  
; Sequence 531, Application US/10831778  
; Publication No. US20040235774A1  
; GENERAL INFORMATION:  
; APPLICANT: Bratzler, Robert L.  
; APPLICANT: Petersen, Deanna M.  
; APPLICANT: Fouron, Yves  
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the  
; TITLE OF INVENTION: Treatment of Asthma and Allergy  
; FILE REFERENCE: C1037/7013 (HCL/MAT)  
; CURRENT APPLICATION NUMBER: US/10/831,778  
; PRIOR FILING DATE: 2004-04-23  
; PRIOR APPLICATION NUMBER: US 60/179,991  
; NUMBER OF SEQ ID NOS: 1093  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 531  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic Sequence  
US-10-831-778-531

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.7e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 206 GGGGGGGTGGGGTGGGGGGG 225  
||||| ||||| ||||| ||||| |||||

Db 1 GGGGGGGGGGGGGGGGGGGG 20

RESULT 282  
US-10-831-778-811/c

```
; Sequence 811, Application US/10831778
; Publication No. US20040235774A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; TITLE OF INVENTION: Treatment of Asthma and Allergy
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/831,778
; CURRENT FILING DATE: 2004-04-23
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 811
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
; US-10-831-778-811

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGGTGGGGGGG 225
Db 20 GGGGGGGGGGGGGGGGGGGG 1

RESULT 283
US-10-831-778-987
; Sequence 987, Application US/10831778
; Publication No. US20040235774A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; TITLE OF INVENTION: Treatment of Asthma and Allergy
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/831,778
; CURRENT FILING DATE: 2004-04-23
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 987
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
; US-10-831-778-987

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGGTGGGGGGG 225
Db 1 GGGGGGGGGGGGGGGGGGGG 20

RESULT 284
US-10-838-659-55/c
; Sequence 55, Application US/10838659
; Publication No. US20050032734A1
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Krieg, Arthur M.
```

```
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; TITLE OF INVENTION: Therapeutic Protocols
; FILE REFERENCE: C1039.70057US01
; CURRENT APPLICATION NUMBER: US/10/838,659
; CURRENT FILING DATE: 2004-05-03
; PRIOR APPLICATION NUMBER: US 09/965,101
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: US 09/082,649
; PRIOR FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 84
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 55
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
; US-10-838-659-55

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGGTGGGGGGG 225
Db 20 GGGGGGGGGGGGGGGGGGGG 1

RESULT 285
US-10-838-659-57
; Sequence 57, Application US/10838659
; Publication No. US20050032734A1
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; TITLE OF INVENTION: Therapeutic Protocols
; FILE REFERENCE: C1039.70057US01
; CURRENT APPLICATION NUMBER: US/10/838,659
; CURRENT FILING DATE: 2004-05-03
; PRIOR APPLICATION NUMBER: US 09/965,101
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: US 09/082,649
; PRIOR FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 84
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 57
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
; US-10-838-659-57

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGGGCGG 671
Db 1 GCGCGGCGCGCGGGCGGGG 20
```

```
RESULT 286
US-10-840-590-491/c
; Sequence 491, Application US/10840590
; Publication No. US2005023341A1
; GENERAL INFORMATION:
; APPLICANT: ROTH, RICHARD B.
; APPLICANT: NELSON, MATTHEW ROBERTS
; APPLICANT: KAMMERER, STEFAN M.
; APPLICANT: BRAUN, ANDREAS
; APPLICANT: HOVAL-WRIGHTSON, CAROLYN R.
; TITLE OF INVENTION: METHODS FOR IDENTIFYING RISK OF MELANOMA AND TREATMENTS THEREOF
; FILE REFERENCE: SEQ-4061-CP
; CURRENT APPLICATION NUMBER: US/10/840,590
; PRIOR FILING DATE: 2004-05-05
; PRIOR APPLICATION NUMBER: 60/489,703
; PRIOR FILING DATE: 2003-07-23
; NUMBER OF SEQ ID NOS: 1638
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 491
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-10-840-590-491

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 120 TCACCTCCTCGCTCCCTAG 139
    |||||
Db 20 TCAGCTCCTCGCTCCCTAG 1

RESULT 287
US-10-969-812A-12
; Sequence 12, Application US/10969812A
; Publication No. US20050196382A1
; GENERAL INFORMATION:
; APPLICANT: VAILLANT, Andrew
; TITLE OF INVENTION: ANTIVIRAL OLIGONUCLEOTIDES TARGETING VIRAL FAMILIES
; FILE REFERENCE: 16051-11us
; CURRENT APPLICATION NUMBER: US/10/969,812A
; PRIOR FILING DATE: 2004-10-19
; PRIOR APPLICATION NUMBER: US10/661,402
; PRIOR FILING DATE: 2003-09-12
; PRIOR APPLICATION NUMBER: PCT/IB03/04573
; PRIOR FILING DATE: 2003-09-11
; PRIOR APPLICATION NUMBER: US 60/430,934
; PRIOR FILING DATE: 2002-12-05
; PRIOR APPLICATION NUMBER: US 60/410,264
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-969-812A-12

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGGGG 225
    |||||
Db 1 GGGGGGGGGGGGGGGGGGG 20

RESULT 288
US-10-969-812A-13/c
; Sequence 13, Application US/10969812A
; Publication No. US20050196382A1
; GENERAL INFORMATION:
; APPLICANT: VAILLANT, Andrew
; APPLICANT: JUTEAU, Jean-Marc
; TITLE OF INVENTION: ANTIVIRAL OLIGONUCLEOTIDES TARGETING VIRAL FAMILIES
; FILE REFERENCE: 16051-11us
; CURRENT APPLICATION NUMBER: US/10/969,812A
; PRIOR FILING DATE: 2004-10-19
; PRIOR APPLICATION NUMBER: US10/661,402
; PRIOR FILING DATE: 2003-09-12
; PRIOR APPLICATION NUMBER: PCT/IB03/04573
; PRIOR FILING DATE: 2003-09-11
; PRIOR APPLICATION NUMBER: US 60/430,934
; PRIOR FILING DATE: 2002-12-05
; PRIOR APPLICATION NUMBER: US 60/410,264
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-969-812A-13

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGGGG 225
    |||||
Db 20 GGGGGGGGGGGGGGGGGGG 1

RESULT 289
US-11-056-463-134
; Sequence 134, Application US/11056463
; Publication No. US20050169888A1
; GENERAL INFORMATION:
; APPLICANT: Hartmann, Gunther L.
; APPLICANT: Bratzler, Robert L.
; TITLE OF INVENTION: Methods Related to Immunostimulatory
; FILE REFERENCE: C1039.70044US01
; CURRENT APPLICATION NUMBER: US/11/056,463
; CURRENT FILING DATE: 2005-02-11
; PRIOR APPLICATION NUMBER: US 09/672,126
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US 60/156,147
; PRIOR FILING DATE: 1999-09-27
; NUMBER OF SEQ ID NOS: 169
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 134
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-11-056-463-134

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.7e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGGGG 225
    |||||
Db 1 GGGGGGGGGGGGGGGGGGG 20
```





```
; Publication No. US20040265230A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Martinez, Robert
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING AND TREATING COLON
; TITLE OF INVENTION: CANCERS
; FILE REFERENCE: AM100927 (031896-002000)
; CURRENT APPLICATION NUMBER: US/10/751,736
; CURRENT FILING DATE: 2003-01-06
; PRIOR APPLICATION NUMBER: US Provisional Application 60/438,000
; PRIOR FILING DATE: 2003-01-06
; NUMBER OF SEQ ID NOS: 54873
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 7448
; LENGTH: 21
; TYPE: RNA
; ORGANISM: RNai
US-10-751-736-7448

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 70.0%; Pred. No. 1.9e+02;
Matches 14; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 2213 TCAGAAAGAGGAGGAGTGT 2232
Db 1 UCCACAAAGAGGAGGAGUGUU 20

RESULT 295
US-10-327-805-25/c
; Sequence 25, Application US/10327805
; Publication No. US20030144241A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Lex M. Cowser
; TITLE OF INVENTION: ANTISENSE MODULATION OF SMAD6 EXPRESSION
; FILE REFERENCE: RTS-0045
; CURRENT APPLICATION NUMBER: US/10/327,805
; CURRENT FILING DATE: 2002-12-20
; PRIOR APPLICATION NUMBER: US/09/679,298
; PRIOR FILING DATE: 2001-03-05
; NUMBER OF SEQ ID NOS: 47
; SEQ ID NO 25
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-327-805-25

Query Match          0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 1.6e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 657 CAGCGCGCGCGCGGGGG 674
Db 18 CAGCGCGCGCGCGGGTGG 1

RESULT 296
US-09-563-728A-15/c
; Sequence 15, Application US/09563728A
; Publication No. US20030078216A1
; GENERAL INFORMATION:
; APPLICANT: MacLeod, Alan R
; APPLICANT: Li, Zoumei
; APPLICANT: Besterman, Jeffrey M
; TITLE OF INVENTION: Inhibition of Histone Deacetylase
; FILE REFERENCE: 106101.229
; CURRENT APPLICATION NUMBER: US/09/563,728A
; CURRENT FILING DATE: 2000-05-03
```

```
; PRIOR APPLICATION NUMBER: 60/132,287
; PRIOR FILING DATE: 1999-05-03
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 15
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: 1-4 and 17-20 are modified
; OTHER INFORMATION: Positions 1-4 and 17-20 are 2'-methoxyribose
; OTHER INFORMATION: substituted nucleotides; positions 5-16 are
; OTHER INFORMATION: deoxyribonucleotides
US-09-563-728A-15
```

```
Query Match          0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 643 GGCAGCAGCGGCAGCAGC 660
Db 19 GGCAGCAGCAGCAGCAGC 2
```

```
RESULT 297
US-09-563-728A-6/c
; Sequence 6, Application US/09563728A
; Publication No. US20030078216A1
; GENERAL INFORMATION:
; APPLICANT: MacLeod, Alan R
; APPLICANT: Li, Zoumei
; APPLICANT: Besterman, Jeffrey M
; TITLE OF INVENTION: Inhibition of Histone Deacetylase
; FILE REFERENCE: 106101.229
; CURRENT APPLICATION NUMBER: US/09/563,728A
; CURRENT FILING DATE: 2000-05-03
; PRIOR APPLICATION NUMBER: 60/132,287
; PRIOR FILING DATE: 1999-05-03
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: oligonucleotide
US-09-563-728A-6
```

```
Query Match          0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 643 GGCAGCAGCGGCAGCAGC 660
Db 19 GGCAGCAGCAGCAGCAGC 2
```

```
RESULT 298
US-09-755-004-10
; Sequence 10, Application US/09755004
; Patent No. US20020110810A1
; GENERAL INFORMATION:
; APPLICANT: Shuber, Anthony
; TITLE OF INVENTION: Methods for Detecting, Grading or Monitoring an H. pylori Infection
; FILE REFERENCE: EXT-048
; CURRENT APPLICATION NUMBER: US/09/755,004
; CURRENT FILING DATE: 2001-01-05
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 10
; LENGTH: 20
```

; TYPE: DNA  
; ORGANISM: Artificial sequence  
; FEATURE:  
; OTHER INFORMATION: APC forward primer  
US-09-755-004-10

Query Match 0.6%; Score 16.4; DB 1; Length 20;  
Best Local Similarity 94.4%; Pred. No. 1.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 280 CTCCTCCACCACCTCCNC 297  
| | | | | | | | | | | | | | | | | | | | | |  
Db 1 CACCTCCACCACCTCCCTC 18

RESULT 299  
US-09-850-514-44/c  
; Sequence 44, Application US/09850514  
; Publication No. US20030044786A1  
; GENERAL INFORMATION:  
; APPLICANT: Rao, Sulekha  
; APPLICANT: Bloch, Will  
; TITLE OF INVENTION: Methods For The Reduction Of Stutter In Microsatellite Amplification  
; FILE REFERENCE: Abi-0007  
; CURRENT APPLICATION NUMBER: US/09/850,514  
; CURRENT FILING DATE: 2001-05-07  
; NUMBER OF SEQ ID NOS: 48  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 44  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Primer  
US-09-850-514-44

Query Match 0.6%; Score 16.4; DB 1; Length 20;  
Best Local Similarity 94.4%; Pred. No. 1.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2365 AGACAGACAGACAGAAAG 2382  
| | | | | | | | | | | | | | | | | | | | | |  
Db 19 AGACAGACAGACAGATAG 2

RESULT 300  
US-09-850-514-45/c  
; Sequence 45, Application US/09850514  
; Publication No. US20030044786A1  
; GENERAL INFORMATION:  
; APPLICANT: Rao, Sulekha  
; APPLICANT: Bloch, Will  
; TITLE OF INVENTION: Methods For The Reduction Of Stutter In Microsatellite Amplification  
; FILE REFERENCE: Abi-0007  
; CURRENT APPLICATION NUMBER: US/09/850,514  
; CURRENT FILING DATE: 2001-05-07  
; NUMBER OF SEQ ID NOS: 48  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 45  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Primer  
US-09-850-514-45

Query Match 0.6%; Score 16.4; DB 1; Length 20;  
Best Local Similarity 94.4%; Pred. No. 1.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2365 AGACAGACAGACAGAAAG 2382  
| | | | | | | | | | | | | | | | | | | | | |  
Db 19 AGACAGACAGACAGATAG 2

RESULT 301  
US-10-145-493B-51/c  
; Sequence 51, Application US/10145493B  
; Publication No. US20030096777A1  
; GENERAL INFORMATION:  
; APPLICANT: Besterman, Jeffrey  
; APPLICANT: Macleod, Robert  
; APPLICANT: Siders, William  
; TITLE OF INVENTION: Modulation of Gene Expression by Combination Therapy  
; FILE REFERENCE: MET-015DV  
; CURRENT APPLICATION NUMBER: US/10/145,493B  
; CURRENT FILING DATE: 2002-05-14  
; PRIOR APPLICATION NUMBER: 09/420,692  
; PRIOR FILING DATE: 1999-10-19  
; PRIOR APPLICATION NUMBER: US 60/104,804  
; PRIOR FILING DATE: 1998-10-19  
; NUMBER OF SEQ ID NOS: 90  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 51  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: primer  
US-10-145-493B-51

Query Match 0.6%; Score 16.4; DB 1; Length 20;  
Best Local Similarity 94.4%; Pred. No. 1.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 643 GGCAGCAGCGGCAGCAGC 660  
| | | | | | | | | | | | | | | | | | | | | |  
Db 19 GGCAGCAGCAGCAGCAGC 2

RESULT 302  
US-10-637-466-44/c  
; Sequence 44, Application US/10637466  
; Publication No. US20050037361A1  
; GENERAL INFORMATION:  
; APPLICANT: Rao, Sulekha  
; APPLICANT: Bloch, Will  
; TITLE OF INVENTION: Methods For The Reduction Of Stutter In Microsatellite Amplification  
; FILE REFERENCE: Abi-0007  
; CURRENT APPLICATION NUMBER: US/10/637,466  
; CURRENT FILING DATE: 2003-08-08  
; PRIOR APPLICATION NUMBER: US/09/850,514  
; PRIOR FILING DATE: 2001-05-07  
; NUMBER OF SEQ ID NOS: 48  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 44  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Primer  
US-10-637-466-44

Query Match 0.6%; Score 16.4; DB 1; Length 20;  
Best Local Similarity 94.4%; Pred. No. 1.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2365 AGACAGACAGACAGAAAG 2382  
| | | | | | | | | | | | | | | | | | | | | |  
Db 19 AGACAGACAGACAGATAG 2

RESULT 303  
US-10-637-466-45/c  
; Sequence 45, Application US/10637466  
; Publication No. US20050037361A1

```
; GENERAL INFORMATION:
; APPLICANT: Rao, Sulekha
; TITLE OF INVENTION: Methods For The Reduction Of Stutter In Microsatellite Amplification
; FILE REFERENCE: Abi-0007
; CURRENT APPLICATION NUMBER: US/10/637,466
; PRIOR FILING DATE: 2003-08-08
; PRIOR APPLICATION NUMBER: US/09/850,514
; PRIOR FILING DATE: 2001-05-07
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 45
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-10-637-466-45

Query Match          0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2365 AGACACACAGACAGAAAG 2382
Db 19 AGACACACAGACAGATAG 2

RESULT 304
US-10-688-706-5
; Sequence 5, Application US/10688706
; Publication No. US20040102412A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacia Corp.
; APPLICANT: Broschat, Kay
; TITLE OF INVENTION: ANTISENSE MODULATION OF GFAT EXPRESSION
; FILE REFERENCE: 01393/1
; CURRENT APPLICATION NUMBER: US/10/688,706
; CURRENT FILING DATE: 2003-10-17
; PRIOR APPLICATION NUMBER: 60/419,268
; PRIOR FILING DATE: 2002-10-17
; NUMBER OF SEQ ID NOS: 3071
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 5
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human GFAT antisense
US-10-688-706-5

Query Match          0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 897 CGGGGGCGGGGTGGCGC 914
Db 3 CGGGGGCGGGGTGGCGC 20

RESULT 305
US-10-688-706-8
; Sequence 8, Application US/10688706
; Publication No. US20040102412A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacia Corp.
; APPLICANT: Broschat, Kay
; TITLE OF INVENTION: ANTISENSE MODULATION OF GFAT EXPRESSION
; FILE REFERENCE: 01393/1
; CURRENT APPLICATION NUMBER: US/10/688,706
; CURRENT FILING DATE: 2003-10-17
; PRIOR APPLICATION NUMBER: 60/419,268
; PRIOR FILING DATE: 2002-10-17
```

```
; NUMBER OF SEQ ID NOS: 3071
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 8
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human GFAT antisense
US-10-688-706-8

Query Match          0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 897 CGGGGGCGGGGTGGCGC 914
Db 2 CGGGGGCGGGGTGGCGC 19

RESULT 306
US-10-703-209-24/c
; Sequence 24, Application US/10703209
; Publication No. US20050112706A1
; GENERAL INFORMATION:
; APPLICANT: KASPER, SUSAN
; TITLE OF INVENTION: DIAGNOSTIC AND PROGNOSTIC METHODS FOR PROSTATE CANCERS
; FILE REFERENCE: VBLT:031US
; CURRENT APPLICATION NUMBER: US/10/703,209
; CURRENT FILING DATE: 2003-11-05
; PRIOR APPLICATION NUMBER: 60/424,490
; PRIOR FILING DATE: 2002-11-07
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 24
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-703-209-24

Query Match          0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2653 ACCCTGTTTCCCAACCCC 2670
Db 18 ACCCTATTTCACCAACCCC 1

RESULT 307
US-10-238-700-8
; Sequence 8, Application US/10238700
; Publication No. US20030153521A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyme Pharmaceuticals, Inc.
; TITLE OF INVENTION: Nucleic Acid Treatment of Diseases or Conditions Related to Level
; FILE REFERENCE: 400/057 (MBH01-1158-A)
; CURRENT APPLICATION NUMBER: US/10/238,700
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: PCT/US 02/16840
; PRIOR FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: US 60/318,471
; PRIOR FILING DATE: 2001-09-10
; NUMBER OF SEQ ID NOS: 4666
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 8
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-238-700-8
```

```
; PRIOR FILING DATE: 2003-04-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 6810
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 8
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-724-270-8

Query Match          0.6%; Score 16; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGC 667
Db 2 GGCAGCAGCGCGCGC 17

RESULT 310
US-10-724-270-9
; Sequence 9, Application US/10724270
; Publication No. US20050080031A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; TITLE OF INVENTION: Nucleic Acid Treatment of Diseases or Conditions Related to Levels
; TITLE OF INVENTION: RAS, HER2 and HIV
; FILE REFERENCE: 400/046-US (MHB02-326-A)
; CURRENT APPLICATION NUMBER: US/10/724,270
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: PCT/US02/16840
; PRIOR FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: US 60/318,471
; PRIOR FILING DATE: 2001-09-10
; PRIOR APPLICATION NUMBER: US 60/296,249
; PRIOR FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: US 60/294,140
; PRIOR FILING DATE: 2001-05-29
; PRIOR APPLICATION NUMBER: US 10/238,700
; PRIOR FILING DATE: 2002-09-10
; PRIOR APPLICATION NUMBER: US 10/163,552
; PRIOR FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 10/157,580
; PRIOR FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: US 10/417,012
; PRIOR FILING DATE: 2003-04-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 6810
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 9
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-10-724-270-9

Query Match          0.6%; Score 16; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 654 CAGCAGCGCGCGCGC 669
Db 1 CAGCAGCGCGCGCGC 16

RESULT 311
US-10-331-907-247
; Sequence 247, Application US/10331907
; Publication No. US20030181660A1
```

GENERAL INFORMATION:  
APPLICANT: Todd, John A  
Hess, John W  
Caskey, Charles T  
Cox, Roger D  
Gerhold, David  
Hammond, Holly  
Hey, Patricia  
Kawaguchi, Yoshihiko  
Merriman, Tony R  
Metzker, Michael L  
TITLE OF INVENTION: No. US20030181660A1e1 LDL-Receptor  
NUMBER OF SEQUENCES: 455  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Nixon and Vanderhye  
STREET: 1100 No. US20030181660A1th Glebe Road, Eighth Floor  
CITY: Arlington  
STATE: Virginia  
COUNTRY: US  
ZIP: VA 22201-4714  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/331,907  
FILING DATE: 31-Dec-2002  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: US/09/402,923A  
FILING DATE: 14-Feb-2001  
APPLICATION NUMBER: PCT/GB98/01102  
FILING DATE: 15-APR-1998  
APPLICATION NUMBER: US 60/043,553  
FILING DATE: 15-APR-1997  
APPLICATION NUMBER: US 60/048,740  
FILING DATE: 05-JUN-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: B.J.Sadoff  
REGISTRATION NUMBER: 36,663  
REFERENCE/DOCKET NUMBER: 620-81  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703)816-4091  
TELEFAX: (703)816-4100  
INFORMATION FOR SEQ ID NO: 247:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 19 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
SEQUENCE DESCRIPTION: SEQ ID NO: 247:  
US-10-331-907-247  
Query Match 0.6%; Score 16; DB 1; Length 19;  
Best Local Similarity 100.0%; Pred. No. 1.9e+02;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1581 CATCTTTGCCACCATG 1596  
|||||  
Db 4 CATCTTTGCCACCATG 19  
RESULT 312  
US-10-923-516-419  
Sequence 419, Application US/10923516  
Publication No. US20050176025A1  
GENERAL INFORMATION:  
APPLICANT: Sirna Therapeutics, Inc.  
APPLICANT: McSwiggen, James  
TITLE OF INVENTION: RNA Interference Mediated Inhibition of B-Cell CLL/Lymphoma-2  
TITLE OF INVENTION: (BCL2) Gene Expression Using Short Interfering Nucleic Acid (siN  
FILE REFERENCE: 400/173 (MBHB02-714-F)  
CURRENT APPLICATION NUMBER: US/10/923,516  
CURRENT FILING DATE: 2004-08-20  
PRIOR APPLICATION NUMBER: PCT/US 03/04908  
PRIOR FILING DATE: 2003-02-18  
PRIOR APPLICATION NUMBER: US 60/396,905  
PRIOR FILING DATE: 2002-07-18  
PRIOR APPLICATION NUMBER: PCT/US 04/16390  
PRIOR FILING DATE: 2003-05-24  
PRIOR APPLICATION NUMBER: US 10/826,966  
PRIOR FILING DATE: 2004-04-16  
PRIOR APPLICATION NUMBER: US 10/757,803  
PRIOR FILING DATE: 2004-01-14  
PRIOR APPLICATION NUMBER: US 10/720,448  
PRIOR FILING DATE: 2003-11-24  
PRIOR APPLICATION NUMBER: US 10/693,059  
PRIOR FILING DATE: 2003-10-23  
PRIOR APPLICATION NUMBER: US 10/444,853  
PRIOR FILING DATE: 2003-05-23  
PRIOR APPLICATION NUMBER: PCT/US03/05346  
PRIOR FILING DATE: 2003-02-20

CURRENT APPLICATION NUMBER: US/10/923,516  
CURRENT FILING DATE: 2004-08-20  
PRIOR APPLICATION NUMBER: PCT/US 03/04908  
PRIOR FILING DATE: 2003-02-18  
PRIOR APPLICATION NUMBER: US 60/396,905  
PRIOR FILING DATE: 2002-07-18  
PRIOR APPLICATION NUMBER: PCT/US 04/16390  
PRIOR FILING DATE: 2003-05-24  
PRIOR APPLICATION NUMBER: US 10/826,966  
PRIOR FILING DATE: 2004-04-16  
PRIOR APPLICATION NUMBER: US 10/757,803  
PRIOR FILING DATE: 2004-01-14  
PRIOR APPLICATION NUMBER: US 10/720,448  
PRIOR FILING DATE: 2003-11-24  
PRIOR APPLICATION NUMBER: US 10/693,059  
PRIOR FILING DATE: 2003-10-23  
PRIOR APPLICATION NUMBER: US 10/444,853  
PRIOR FILING DATE: 2003-05-23  
PRIOR APPLICATION NUMBER: PCT/US03/05346  
PRIOR FILING DATE: 2003-02-20  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 882  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 419  
LENGTH: 19  
TYPE: RNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region  
US-10-923-516-419  
Query Match 0.6%; Score 16; DB 1; Length 19;  
Best Local Similarity 100.0%; Pred. No. 1.9e+02;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 656 GCAGCGCGCGCGCGG 671  
|||||  
Db 1 GCAGCGCGCGCGCGG 16  
RESULT 313  
US-10-923-516-5/c  
Sequence 5, Application US/10923516  
Publication No. US20050176025A1  
GENERAL INFORMATION:  
APPLICANT: Sirna Therapeutics, Inc.  
APPLICANT: McSwiggen, James  
APPLICANT: Beigelman, Leonid  
TITLE OF INVENTION: RNA Interference Mediated Inhibition of B-Cell CLL/Lymphoma-2  
TITLE OF INVENTION: (BCL2) Gene Expression Using Short Interfering Nucleic Acid (siN  
FILE REFERENCE: 400/173 (MBHB02-714-F)  
CURRENT APPLICATION NUMBER: US/10/923,516  
CURRENT FILING DATE: 2004-08-20  
PRIOR APPLICATION NUMBER: PCT/US 03/04908  
PRIOR FILING DATE: 2003-02-18  
PRIOR APPLICATION NUMBER: US 60/396,905  
PRIOR FILING DATE: 2002-07-18  
PRIOR APPLICATION NUMBER: PCT/US 04/16390  
PRIOR FILING DATE: 2003-05-24  
PRIOR APPLICATION NUMBER: US 10/826,966  
PRIOR FILING DATE: 2004-04-16  
PRIOR APPLICATION NUMBER: US 10/757,803  
PRIOR FILING DATE: 2004-01-14  
PRIOR APPLICATION NUMBER: US 10/720,448  
PRIOR FILING DATE: 2003-11-24  
PRIOR APPLICATION NUMBER: US 10/693,059  
PRIOR FILING DATE: 2003-10-23  
PRIOR APPLICATION NUMBER: US 10/444,853  
PRIOR FILING DATE: 2003-05-23  
PRIOR APPLICATION NUMBER: PCT/US03/05346  
PRIOR FILING DATE: 2003-02-20

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; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 892
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 5
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siRNA sense
US-10-923-516-5

Query Match          0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 656 GCAGCGCGCGCGCGG 671
Db 19 GCAGCGCGCGCGCGG 4

RESULT 314
US-10-121-746-57/c
; Sequence 57, Application US/10121746
; Publication No. US20030036648A1
; GENERAL INFORMATION:
; APPLICANT: Miller, Andrew P.
; APPLICANT: Curran, Mark Edward
; APPLICANT: Hu, Ping
; APPLICANT: Rutter, Marc
; APPLICANT: Wang, Jian-Wang
; TITLE OF INVENTION: No. US20030036648A1el Human Potassium Channels
; FILE REFERENCE: SEQ-15P
; CURRENT APPLICATION NUMBER: US/10/121,746
; CURRENT FILING DATE: 2002-04-11
; PRIOR APPLICATION NUMBER: US/09/336,643A
; PRIOR FILING DATE: 1999-06-18
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/076,687
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/116,448
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-01-19
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: PCT/US99/03826
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-02-22
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 57
; LENGTH: 45
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-10-121-746-57

Query Match          0.6%; Score 16; DB 1; Length 45;
Best Local Similarity 62.5%; Pred. No. 3.3e+02;
Matches 25; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Qy 2631 ATGTCCTCCAGTCCTCTGCCACCCCTGTTTCCACACCCC 2670
Db 44 ATGTCCTCCAGTCCTCTGCCACCCCTGTCATGTCGTGACACAGCCC 5

RESULT 315
US-10-976-644-57/c
; Sequence 57, Application US/10976644
; Publication No. US20050112662A1
; GENERAL INFORMATION:
; APPLICANT: Miller, Andrew P.
; APPLICANT: Curran, Mark Edward
; APPLICANT: Hu, Ping
; APPLICANT: Rutter, Marc
; APPLICANT: Wang, Jian-Wang
```

```
; TITLE OF INVENTION: Novel Human Potassium Channels
; FILE REFERENCE: SEQ-15P
; CURRENT APPLICATION NUMBER: US/10/976,644
; CURRENT FILING DATE: 2004-10-29
; PRIOR APPLICATION NUMBER: US/09/336,643
; PRIOR FILING DATE: 1999-06-18
; PRIOR APPLICATION NUMBER: 60/076,687
; PRIOR FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: 60/116,448
; PRIOR FILING DATE: 1999-01-19
; PRIOR APPLICATION NUMBER: PCT/US99/03826
; PRIOR FILING DATE: 1999-02-22
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 57
; LENGTH: 45
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-10-976-644-57

Query Match          0.6%; Score 16; DB 1; Length 45;
Best Local Similarity 62.5%; Pred. No. 3.3e+02;
Matches 25; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Qy 2631 ATGTCCTCCAGTCCTCTGCCACCCCTGTTTCCACACCCC 2670
Db 44 ATGTCCTCCAGTCCTCTGCCACCCCTGTCATGTCGTGACACAGCCC 5

RESULT 316
US-10-976-647-57/c
; Sequence 57, Application US/10976647
; Publication No. US20050112663A1
; GENERAL INFORMATION:
; APPLICANT: Miller, Andrew P.
; APPLICANT: Curran, Mark Edward
; APPLICANT: Hu, Ping
; APPLICANT: Rutter, Marc
; APPLICANT: Wang, Jian-Wang
; TITLE OF INVENTION: Novel Human Potassium Channels
; FILE REFERENCE: SEQ-15P
; CURRENT APPLICATION NUMBER: US/10/976,647
; CURRENT FILING DATE: 2004-10-29
; PRIOR APPLICATION NUMBER: CURRENT APPLICATION NUMBER: US/09/336,643
; PRIOR FILING DATE: CURRENT FILING DATE: 1999-06-18
; PRIOR APPLICATION NUMBER: 60/076,687
; PRIOR FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: 60/116,448
; PRIOR FILING DATE: 1999-01-19
; PRIOR APPLICATION NUMBER: PCT/US99/03826
; PRIOR FILING DATE: 1999-02-22
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 57
; LENGTH: 45
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-10-976-647-57

Query Match          0.6%; Score 16; DB 1; Length 45;
Best Local Similarity 62.5%; Pred. No. 3.3e+02;
Matches 25; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Qy 2631 ATGTCCTCCAGTCCTCTGCCACCCCTGTTTCCACACCCC 2670
Db 44 ATGTCCTCCAGTCCTCTGCCACCCCTGTCATGTCGTGACACAGCCC 5

RESULT 317
```

```
US-09-823-549-44
; Sequence 44, Application US/09823549
; Publication No. US20020147998A1
; GENERAL INFORMATION:
; APPLICANT: McConlogue, Lisa C
; APPLICANT: Games, Kate D.
; APPLICANT: Vednock, Theodore A.
; APPLICANT: Hua, Tan
; APPLICANT: Messersmith, Elizabeth
; APPLICANT: Bard, Frederique
; TITLE OF INVENTION: SCREENING MARKERS AND METHODS FOR NEURODEGENERATIVE DISORDERS
; FILE REFERENCE: 015270-009110US
; CURRENT APPLICATION NUMBER: US/10/685,992
; CURRENT FILING DATE: 2003-10-14
; PRIOR APPLICATION NUMBER: US/09/823,549
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: US 60/193,847
; PRIOR FILING DATE: 2000-03-30
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 44
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: IL-10 reverse primer
US-09-823-549-44

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 2e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1459 CGCATCTCGCGATCTTCA 1477
      |||||
DB 1 CGCATCTCGAGGCTCTTCA 19

RESULT 318
US-10-294-228-43
; Sequence 43, Application US/10294228
; Publication No. US20040018176A1
; GENERAL INFORMATION:
; APPLICANT: Tolentino, Michael J.
; APPLICANT: Reich, Samuel Jorham
; TITLE OF INVENTION: Compositions and Methods for sirna
; TITLE OF INVENTION: Inhibition of Angiogenesis
; FILE REFERENCE: 43826-1
; CURRENT APPLICATION NUMBER: US/10/294,228
; CURRENT FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: US 60/398,417
; PRIOR FILING DATE: 2002-07-24
; NUMBER OF SEQ ID NOS: 80
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 43
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Targeting Sequence
US-10-294-228-43

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 2e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2755 GTGGTCCAGGCTCTCTC 2773
      |||||
DB 1 GTGGTCCAGGCTCACCC 19

RESULT 319
US-10-685-992-44
; Sequence 44, Application US/10685992
; Publication No. US20040213739A1
; GENERAL INFORMATION:
; APPLICANT: McConlogue, Lisa C
; APPLICANT: Games, Kate D.
; APPLICANT: Vednock, Theodore A.
; APPLICANT: Hua, Tan
; APPLICANT: Messersmith, Elizabeth
; APPLICANT: Bard, Frederique
; TITLE OF INVENTION: SCREENING MARKERS AND METHODS FOR NEURODEGENERATIVE DISORDERS
; FILE REFERENCE: 015270-009110US
; CURRENT APPLICATION NUMBER: US/10/685,992
; CURRENT FILING DATE: 2003-10-14
; PRIOR APPLICATION NUMBER: US/09/823,549
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: US 60/193,847
; PRIOR FILING DATE: 2000-03-30
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 44
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: IL-10 reverse primer
US-10-685-992-44

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 2e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1459 CGCATCTCGCGATCTTCA 1477
      |||||
DB 1 CGCATCTCGAGGCTCTTCA 19

RESULT 320
US-10-883-218-11/c
; Sequence 11, Application US/10883218
; Publication No. US20050124567A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Haerberli, Peter
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of TRPM7 Gene Expression
; TITLE OF INVENTION: Using Short Interfering Nucleic Acid (siNA)
; FILE REFERENCE: 400/195 (MBHB04-535)
; CURRENT APPLICATION NUMBER: US/10/883,218
; CURRENT FILING DATE: 2004-07-01
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2003-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: US 10/427,160
; PRIOR FILING DATE: 2003-04-30
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 930
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 11
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
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rrpcp2858.rnpbm

Tue Feb 7 14:47:52 2006

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;
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-883-218-11
    Query Match          0.6%; Score 15.8; DB 1; Length 19;
    Best Local Similarity 89.5%; Pred. No. 2e+02; 2; Indels 0; Gaps 0;
    Matches 17; Conservative 0; Mismatches 0;

Qy 289 CACCTCTCTCTCTCTCTCG 307
Db 19 CACCTCTCTCTCTCTCGCG 1

RESULT 321
US-10-883-218-413
; Sequence 413, Application US/10883218
; Publication No. US20050124567A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Haerberli, Peter
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of TRPM7 Gene Expression
; TITLE OF INVENTION: Using Short Interfering Nucleic Acid (siNA)
; FILE REFERENCE: 400/195 (MBHB04-535)
; CURRENT APPLICATION NUMBER: US/10/883,218
; PRIOR FILING DATE: 2004-07-01
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2003-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 474
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 200
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-922-544-200

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 2e+02; 2; Indels 0; Gaps 0;
Matches 17; Conservative 0; Mismatches 0;

Qy 645 CAGCAGCGCGCAGCAGCGCG 663
Db 19 CAGCAGCGCGCAGCAGCGCG 1

RESULT 323
US-10-922-544-26
; Sequence 26, Application US/10922544
; Publication No. US20050153915A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Usman, Nassim
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Early Growth Response
; TITLE OF INVENTION: Gene Expression Using Short Interfering Nucleic Acid (siNA)
; FILE REFERENCE: 400/204 (MBHB03-939-B)
; CURRENT APPLICATION NUMBER: US/10/922,544
; CURRENT FILING DATE: 2004-08-19
; PRIOR APPLICATION NUMBER: US 60/512,701
; PRIOR FILING DATE: 2003-10-20
; PRIOR APPLICATION NUMBER: PCT/US04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-11-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 2e+02; 4; Indels 0; Gaps 0;
Matches 13; Conservative 4; Mismatches 0;

Qy 289 CACCTCTCTCTCTCTCTCG 307
Db 1 CACCTCTCTCTCTCTCTCGCG 19

RESULT 322
US-10-922-544-200/c
; Sequence 200, Application US/10922544
; Publication No. US20050153915A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Usman, Nassim

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; PRIOR APPLICATION NUMBER: PCT/US03/05346  
; PRIOR FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: PCT/US03/05028  
; PRIOR FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: US 60/358,580  
; PRIOR FILING DATE: 2002-02-20  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 474  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 26  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r  
US-10-922-544-26

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 2e+02;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 645 CAGCAGCGCAGCAGCGCG 663  
||||| ||||| ||||| ||||| |||||  
DB 1 CAGCAGCAGCAGCAGCAGC 19

RESULT 324  
US-10-923-379-171/c  
; Sequence 171, Application US/10923379  
; Publication No. US20050239731A1  
; GENERAL INFORMATION:  
; APPLICANT: Sirna Therapeutics, Inc.  
; APPLICANT: McSwiggen, James  
; APPLICANT: Beigelman, Leonid  
; APPLICANT: Usman, Nassim  
; APPLICANT: Haeblerli, Peter  
; APPLICANT: Chowrira, Bharat  
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of MAP Kinase Gene  
; TITLE OF INVENTION: Expression or Expression of Genes Involved in MAP Kinase Pathway  
; FILE REFERENCE: 03-040-D: (400.233)  
; CURRENT APPLICATION NUMBER: US/10/923,379  
; CURRENT FILING DATE: 2004-08-20  
; NUMBER OF SEQ ID NOS: 2360  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 171  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region  
US-10-923-379-171

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 2e+02;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCG 668  
||||| ||||| ||||| ||||| |||||  
DB 19 GCGGCTGCACCGCGCGCGG 1

RESULT 325  
US-10-923-379-8  
; Sequence 8, Application US/10923379  
; Publication No. US20050239731A1  
; GENERAL INFORMATION:  
; APPLICANT: Sirna Therapeutics, Inc.  
; APPLICANT: McSwiggen, James  
; APPLICANT: Beigelman, Leonid  
; APPLICANT: Usman, Nassim  
; APPLICANT: Haeblerli, Peter  
; APPLICANT: Chowrira, Bharat

; TITLE OF INVENTION: RNA Interference Mediated Inhibition of MAP Kinase Gene  
; TITLE OF INVENTION: Expression or Expression of Genes Involved in MAP Kinase Pathway  
; FILE REFERENCE: 03-040-D: (400.233)  
; CURRENT APPLICATION NUMBER: US/10/923,379  
; CURRENT FILING DATE: 2004-08-20  
; NUMBER OF SEQ ID NOS: 2360  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 8  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: siNA sense region  
US-10-923-379-8

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 2e+02;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCG 668  
||||| ||||| ||||| ||||| |||||  
DB 1 GCGGCTGCACCGCGCGCGG 19

RESULT 326  
US-10-923-380-173/c  
; Sequence 173, Application US/10923380  
; Publication No. US20050196767A1  
; GENERAL INFORMATION:  
; APPLICANT: Sirna Therapeutics, Inc.  
; APPLICANT: McSwiggen, James  
; APPLICANT: Usman, Nassim  
; APPLICANT: Beigelman, Leonid  
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of GRB2-Associated Binding  
; FILE REFERENCE: 400.175 (MBHH03-062-B)  
; CURRENT APPLICATION NUMBER: US/10/923,380  
; CURRENT FILING DATE: 2004-08-20  
; PRIOR APPLICATION NUMBER: PCT/US 03/04909  
; PRIOR FILING DATE: 2003-02-18  
; PRIOR APPLICATION NUMBER: PCT/US 04/16390  
; PRIOR FILING DATE: 2004-05-24  
; PRIOR APPLICATION NUMBER: US 10/826,966  
; PRIOR FILING DATE: 2004-04-16  
; PRIOR APPLICATION NUMBER: US 10/757,803  
; PRIOR FILING DATE: 2004-01-14  
; PRIOR APPLICATION NUMBER: US 10/720,448  
; PRIOR FILING DATE: 2003-11-24  
; PRIOR APPLICATION NUMBER: US 10/693,059  
; PRIOR FILING DATE: 2003-10-23  
; PRIOR APPLICATION NUMBER: US 10/444,853  
; PRIOR FILING DATE: 2003-05-23  
; PRIOR APPLICATION NUMBER: PCT/US03/05346  
; PRIOR FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: PCT/US03/05028  
; PRIOR FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: US 60/358,580  
; PRIOR FILING DATE: 2002-02-20  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 803  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 173  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense r  
US-10-923-380-173

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 2e+02;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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; CURRENT FILING DATE: 2004-08-20
; NUMBER OF SEQ ID NOS: 857
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 136
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-923-475-136

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 2e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGC 669
Db 19 CGCGCGCGCGCGCGCGC 1

RESULT 329
US-10-923-475-8
; Sequence 8, Application US/10923475
; Publication No. US20050227936A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; APPLICANT: Beigelman, Leonid
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of TGF-Beta and TGF-Beta
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siRNA)
; FILE REFERENCE: 400/190 (MEHB02-1193-D)
; CURRENT APPLICATION NUMBER: US/10/923,475
; CURRENT FILING DATE: 2004-08-20
; NUMBER OF SEQ ID NOS: 857
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 8
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-923-475-8

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 2e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGC 669
Db 1 CGCGCGCGCGCGCGCGC 19

RESULT 330
US-10-384-245-238
; Sequence 238, Application US/10384245
; Publication No. US20040072191A1
; GENERAL INFORMATION:
; APPLICANT: Alex Chenchik
; TITLE OF INVENTION: Antisense RNA Standardizing Control
; FILE REFERENCE: CLON-087PRV
; CURRENT APPLICATION NUMBER: US/10/384,245
; CURRENT FILING DATE: 2003-03-07
; NUMBER OF SEQ ID NOS: 1090
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 238
; LENGTH: 80
; TYPE: DNA
; ORGANISM: Rat
US-10-384-245-238

Query Match      0.6%; Score 15.8; DB 1; Length 80;
Best Local Similarity 52.2%; Pred. No. 2.1e+02;
```

```
; CURRENT FILING DATE: 2004-08-20
; NUMBER OF SEQ ID NOS: 857
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 136
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-923-475-136

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 2e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGC 669
Db 19 CGCGCGCGCGCGCGCGC 1

RESULT 329
US-10-923-475-8
; Sequence 8, Application US/10923475
; Publication No. US20050227936A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; APPLICANT: Beigelman, Leonid
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of TGF-Beta and TGF-Beta
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siRNA)
; FILE REFERENCE: 400/190 (MEHB02-1193-D)
; CURRENT APPLICATION NUMBER: US/10/923,475
; CURRENT FILING DATE: 2004-08-20
; NUMBER OF SEQ ID NOS: 857
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 8
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-923-475-8

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 2e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGC 669
Db 1 CGCGCGCGCGCGCGCGC 19

RESULT 330
US-10-384-245-238
; Sequence 238, Application US/10384245
; Publication No. US20040072191A1
; GENERAL INFORMATION:
; APPLICANT: Alex Chenchik
; TITLE OF INVENTION: Antisense RNA Standardizing Control
; FILE REFERENCE: CLON-087PRV
; CURRENT APPLICATION NUMBER: US/10/384,245
; CURRENT FILING DATE: 2003-03-07
; NUMBER OF SEQ ID NOS: 1090
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 238
; LENGTH: 80
; TYPE: DNA
; ORGANISM: Rat
US-10-384-245-238

Query Match      0.6%; Score 15.8; DB 1; Length 80;
Best Local Similarity 52.2%; Pred. No. 2.1e+02;
```

```
Matches 35; Conservative 0; Mismatches 32; Indels 0; Gaps 0;
QY 19 CTGGGTTGGGGGGGGGTGTCCTCCGGCCGGAGCATCCTTGTCCTCAACCTTCT 78
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
10 CTGGTGCACTGTAGTGTGCTGTCCTCCGGGGTGAAGTCTCTCAGACTTGCAGTAATGGGT 69
QY 79 GAGACCC 85
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
70 GACACTC 76

RESULT 331
US-10-845-667-390
; Sequence 390, Application US/10845667
; Publication No. US20050026183A1
; GENERAL INFORMATION:
; APPLICANT: Fan, Jian-Bing
; APPLICANT: Bibikova, Marina
; TITLE OF INVENTION: Methods and Compositions For Diagnosing
; FILE REFERENCE: 67234-091
; CURRENT APPLICATION NUMBER: US/10/845,667
; PRIOR FILING DATE: 2004-05-14
; PRIOR FILING DATE: 2003-05-15
; NUMBER OF SEQ ID NOS: 1506
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 390
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-845-667-390

Query Match 0.5%; Score 15.4; DB 1; Length 17;
Best Local Similarity 94.1%; Pred. No. 1.9e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 300 CCTTCTCGTCTCTCTCC 316
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
1 CCTCTCGTCTCTCTCC 17

RESULT 332
US-10-973-783-769
; Sequence 769, Application US/10973783
; Publication No. US20050164246A1
; GENERAL INFORMATION:
; APPLICANT: Fan, Jian-Bing
; APPLICANT: Bibikova, Marina
; TITLE OF INVENTION: Methods and Compositions For Diagnosing
; FILE REFERENCE: 67234-100
; CURRENT APPLICATION NUMBER: US/10/973,783
; CURRENT FILING DATE: 2004-10-25
; PRIOR APPLICATION NUMBER: US 10/845,667
; PRIOR FILING DATE: 2004-05-14
; PRIOR APPLICATION NUMBER: US 60/471,488
; PRIOR FILING DATE: 2003-05-15
; NUMBER OF SEQ ID NOS: 1513
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 769
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Probe sequence (US01)
US-10-973-783-769

Query Match 0.5%; Score 15.4; DB 1; Length 17;
Best Local Similarity 94.1%; Pred. No. 1.9e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 300 CCTTCTCGTCTCTCTCC 316
```

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Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
1 CCTCTCGTCTCTCTCC 17

RESULT 333
US-09-500-700-68
; Sequence 68, Application US/09500700
; Publication No. US20030059767A1
; GENERAL INFORMATION:
; APPLICANT: THE SCRIPES RESEARCH INSTITUTE
; APPLICANT: BARBAS III, Carlos F.
; APPLICANT: GOTTESFELD, Joel M.
; APPLICANT: WRIGHT, Peter E.
; TITLE OF INVENTION: ZINC FINGER PROTEIN DERIVATIVES AND METHODS THEREFOR
; FILE REFERENCE: SCRIPT1160-4
; CURRENT APPLICATION NUMBER: US/09/500,700
; CURRENT FILING DATE: 2003-01-10
; PRIOR APPLICATION NUMBER: US 08/863,813
; PRIOR FILING DATE: 1997-05-27
; PRIOR APPLICATION NUMBER: US 08/676,318
; PRIOR FILING DATE: 1996-12-30
; PRIOR APPLICATION NUMBER: PCT/US95/00829
; PRIOR FILING DATE: 1995-01-18
; PRIOR APPLICATION NUMBER: US 08/312,604
; PRIOR FILING DATE: 1994-09-28
; PRIOR APPLICATION NUMBER: US 08/183,119
; PRIOR FILING DATE: 1994-01-18
; NUMBER OF SEQ ID NOS: 127
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 68
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: (GCG)6 probe
US-09-500-700-68

Query Match 0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 2.1e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 659 GCGGCGGCGGCGGCGGC 675
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
1 GCGGCGGCGGCGGCGGC 17

RESULT 334
US-09-961-077-1165/c
; Sequence 1165, Application US/09961077
; Publication No. US20030014775A1
; GENERAL INFORMATION:
; APPLICANT: Zwick, Michael G.
; APPLICANT: Edington, Brent E.
; APPLICANT: McSwiggen, James A.
; APPLICANT: Merlo, Patricia Ann Owens
; APPLICANT: Guo, Lining
; APPLICANT: Skokut, Thomas A.
; APPLICANT: Young, Scott A.
; APPLICANT: Folkerts, Otto
; APPLICANT: Merlo, Donald J.
; TITLE OF INVENTION: COMPOSITION AND METHODS FOR
; MODULATION OF GENE EXPRESSION
; IN PLANTS
; NUMBER OF SEQUENCES: 1263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
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; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/961,077
; FILING DATE: 21-Sep-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/679,645
; FILING DATE: July 12, 1996
; APPLICATION NUMBER: 60/001,135
; FILING DATE: July 13, 1995
; APPLICATION NUMBER: 08/300,726
; FILING DATE: September 2, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 219/247
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 1165:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 1165:
;
US-09-961-077-1165
Query Match 0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 2.1e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGGCGGCGGCGG 672
||| ||||| ||||| |||||
DB 18 GCGGCGGCGGCGGCGG 2

RESULT 335
US-10-084-839-3910
; Sequence 3910, Application US/10084839
; Publication No. US20030186238A1
; GENERAL INFORMATION:
; APPLICANT: Third Wave Technologies
; APPLICANT: Allawi, Hatim
; APPLICANT: Argue, Brad T.
; APPLICANT: Bartholomay, Christian T.
; APPLICANT: Chehak, LuAnne
; APPLICANT: Curtis, Michelle L.
; APPLICANT: Eis, Peggy S.
; APPLICANT: Hall, Jeff G.
; APPLICANT: Ip, Hon S.
; APPLICANT: Ji, Lin
; APPLICANT: Kaiser, Michael
; APPLICANT: Kwiatkowski, Jr., Robert W.
; APPLICANT: Lukowiak, Andrew A.
; APPLICANT: Lyamichnev, Victor
; APPLICANT: Lymaicheva, Natalie E.
; APPLICANT: Ma, WuPo
; APPLICANT: Neri, Bruce P.
; APPLICANT: Olson, Sarah M.
; APPLICANT: Olson-Munoz, Marilyn C.
; APPLICANT: Schaefer, James J.
; APPLICANT: Skrzypczynski, Zbigniew
; APPLICANT: Takova, Tseteka Y.
; APPLICANT: Thompson, Lisa C.
; APPLICANT: Vedvik, Kevin L.
; TITLE OF INVENTION: RNA Detection Assays
; FILE REFERENCE: FORS-06666
```

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; CURRENT APPLICATION NUMBER: US/10/084,839
; CURRENT FILING DATE: 2002-02-26
; NUMBER OF SEQ ID NOS: 4004
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3910
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
; US-10-084-839-3910
Query Match 0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 2.1e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 512 TCATCATCAACGTGGGC 528
||||| ||||| ||||| |||||
DB 1 TCATCATCAAGTGGGC 17

RESULT 336
US-10-314-405-45
; Sequence 45, Application US/10314405
; Publication No. US20030108940A1
; GENERAL INFORMATION:
; APPLICANT: Hidetoshi, Inoko
; APPLICANT: Gen, Tamiya
; APPLICANT: Yasunari, Matsuzaka
; TITLE OF INVENTION: NOVEL POLYMORPHIC MICROSATELLITE MARKERS IN THE HUMAN MHC CLASS I
; FILE REFERENCE: 06501-069001
; CURRENT APPLICATION NUMBER: US/10/314,405
; CURRENT FILING DATE: 2002-12-06
; PRIOR APPLICATION NUMBER: US/09/713,616
; PRIOR FILING DATE: 2000-11-15
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 45
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-314-405-45
Query Match 0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 2.1e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGGCGGCGGCGG 675
||||| ||||| ||||| |||||
DB 1 GCGGCGGCGGCGGCGG 17

RESULT 337
US-10-321-039-541
; Sequence 541, Application US/10321039
; Publication No. US20040014067A1
; GENERAL INFORMATION:
; APPLICANT: Lyamichnev, Victor
; APPLICANT: Lukowiak, Andrew
; APPLICANT: Jarvis, Nancy
; APPLICANT: Kurensky, David
; TITLE OF INVENTION: Amplification Methods and Compositions
; FILE REFERENCE: FORS-06960
; CURRENT APPLICATION NUMBER: US/10/321,039
; CURRENT FILING DATE: 2002-12-17
; PRIOR APPLICATION NUMBER: 09/998,157
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: 60/329,113
; PRIOR FILING DATE: 2001-10-12
; PRIOR APPLICATION NUMBER: 60/360,489
; PRIOR FILING DATE: 2001-10-19
; NUMBER OF SEQ ID NOS: 759
; SOFTWARE: PatentIn version 3.2
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; SEQ ID NO 541  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic  
US-10-321-039-541

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 2.1e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGAGCAGC 660  
|||||  
DB 1 GCAGCAGCAGCAGCAGC 17

RESULT 338  
US-10-723-681-243/c  
; Sequence 243, Application US/10723681  
; Publication No. US20050192239A1  
; GENERAL INFORMATION:  
; APPLICANT: ROTH, RICHARD B.  
; APPLICANT: NELSON, MATTHEW ROBERTS  
; APPLICANT: BRAUN, ANDREAS  
; APPLICANT: KAMMERER, STEFAN M.  
; APPLICANT: RENEKAND, RIKARD  
; TITLE OF INVENTION: METHODS FOR IDENTIFYING RISK OF BREAST CANCER AND  
; FILE REFERENCE: SEQ-4069-CP  
; CURRENT APPLICATION NUMBER: US/10/723,681  
; CURRENT FILING DATE: 2003-11-25  
; PRIOR APPLICATION NUMBER: US 60/429,136  
; PRIOR FILING DATE: 2002-11-25  
; PRIOR APPLICATION NUMBER: US 60/490,234  
; PRIOR FILING DATE: 2003-07-24  
; NUMBER OF SEQ ID NOS: 835  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 243  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Primer  
US-10-723-681-243

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 2.1e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGCTCTACACCTGT 2268  
|||||  
DB 17 CAGTGCTCTACACCTGT 1

RESULT 339  
US-10-941-069-68  
; Sequence 68, Application US/10941069  
; Publication No. US20050084885A1  
; GENERAL INFORMATION:  
; APPLICANT: THE SCRIPPS RESEARCH INSTITUTE  
; APPLICANT: BARBAS III, Carlos F.  
; APPLICANT: GOTTESFELD, Joel M.  
; APPLICANT: WRIGHT, Peter E.  
; TITLE OF INVENTION: ZINC FINGER PROTEIN DERIVATIVES AND METHODS THEREFOR  
; FILE REFERENCE: SCRIPI160-4  
; CURRENT APPLICATION NUMBER: US/10/941,069  
; CURRENT FILING DATE: 2004-09-14  
; PRIOR APPLICATION NUMBER: US/09/500,700  
; PRIOR FILING DATE: 2000-02-09  
; PRIOR APPLICATION NUMBER: US 08/863,813  
; PRIOR FILING DATE: 1997-05-27  
; PRIOR APPLICATION NUMBER: US 08/676,318

; PRIOR FILING DATE: 1996-12-30  
; PRIOR APPLICATION NUMBER: PCT/US95/00829  
; PRIOR FILING DATE: 1995-01-18  
; PRIOR APPLICATION NUMBER: US 08/312,604  
; PRIOR FILING DATE: 1994-09-28  
; PRIOR APPLICATION NUMBER: US 08/183,119  
; PRIOR FILING DATE: 1994-01-18  
; NUMBER OF SEQ ID NOS: 127  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 68  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: (GCG)6 probe  
US-10-941-069-68

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 2.1e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGCGCGCGCGGGGC 675  
|||||  
DB 1 GCGCGCGCGCGGGGC 17

## RESULT 340

US-10-916-030-24/c  
; Sequence 24, Application US/10916030  
; Publication No. US20050159379A1  
; GENERAL INFORMATION:  
; APPLICANT: Sirna Therapeutics, Inc.  
; APPLICANT: McSwiggen, James  
; APPLICANT: Beigelman, Leonid  
; APPLICANT: Ueman, Nassim  
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Gastric Inhibitory  
; TITLE OF INVENTION: Polypeptide (GIP) Gene Expression Using Short Interfering Nucleic  
; TITLE OF INVENTION: Acid (siNA)  
; FILE REFERENCE: 400/174 (MBHB03-061-B)  
; CURRENT APPLICATION NUMBER: US/10/916,030  
; CURRENT FILING DATE: 2004-08-11  
; PRIOR APPLICATION NUMBER: PCT/US 03/04907  
; PRIOR FILING DATE: 2003-02-18  
; PRIOR APPLICATION NUMBER: PCT/US 04/16390  
; PRIOR FILING DATE: 2004-05-24  
; PRIOR APPLICATION NUMBER: US 10/826,966  
; PRIOR FILING DATE: 2004-04-16  
; PRIOR APPLICATION NUMBER: US 10/757,803  
; PRIOR FILING DATE: 2004-01-14  
; PRIOR APPLICATION NUMBER: US 10/720,448  
; PRIOR FILING DATE: 2003-11-24  
; PRIOR APPLICATION NUMBER: US 10/693,059  
; PRIOR FILING DATE: 2003-10-23  
; PRIOR APPLICATION NUMBER: US 10/444,853  
; PRIOR FILING DATE: 2003-05-23  
; PRIOR APPLICATION NUMBER: PCT/US03/05346  
; PRIOR FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: PCT/US03/05028  
; PRIOR FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: US 60/358,580  
; PRIOR FILING DATE: 2002-02-20  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 384  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 24  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense re  
US-10-916-030-24

Query Match 0.5%; Score 15.4; DB 1; Length 19;

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; TITLE OF INVENTION: Gene Expression Using Short Interfering Nucleic Acid (siNA)
; FILE REFERENCE: 400/192 (MHB03-026-B)
; CURRENT APPLICATION NUMBER: US/10/923,522
; CURRENT FILING DATE: 2004-08-20
; PRIOR APPLICATION NUMBER: PCT/US 03/05234
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/439,922
; PRIOR FILING DATE: 2003-01-14
; PRIOR APPLICATION NUMBER: US 60/404,039
; PRIOR FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: PCT/US 04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1779
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1129
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-923-522-1129

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 370 GCCCAAGCCGAGGCC 386
Db 18 GCCCAGCCGAGGCC 2

RESULT 343
US-10-923-522-810
; Sequence 810, Application US/10923522
; Publication No. US20050159381A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; APPLICANT: Chowrira, Bharat
; APPLICANT: Beigelman, Leonid
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Chromosome Translocation
; FILE REFERENCE: 400/192 (MHB03-026-B)
; CURRENT APPLICATION NUMBER: US/10/923,522
; CURRENT FILING DATE: 2004-08-20
; PRIOR APPLICATION NUMBER: PCT/US 03/05234
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/439,922
; PRIOR FILING DATE: 2003-01-14
; PRIOR APPLICATION NUMBER: US 60/404,039
; PRIOR FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: PCT/US 04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
```

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; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Gastric Inhibitory
; FILE REFERENCE: 400/174 (MHB03-061-B)
; CURRENT APPLICATION NUMBER: US/10/916,030
; CURRENT FILING DATE: 2004-08-11
; PRIOR APPLICATION NUMBER: PCT/US 03/04907
; PRIOR FILING DATE: 2003-02-18
; PRIOR APPLICATION NUMBER: PCT/US 04/16390
; PRIOR FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: US 10/826,966
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 10/757,803
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 10/720,448
; PRIOR FILING DATE: 2003-11-24
; PRIOR APPLICATION NUMBER: US 10/693,059
; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: PCT/US03/05028
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,580
; PRIOR FILING DATE: 2002-02-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 384
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 64
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: siNA antisense region
US-10-916-030-64

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 64.7%; Pred. No. 2.2e+02;
Matches 11; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

Qy 270 CTGCTCTCTCTCTCC 286
Db 1 CUGCCUCCUCCUCCUUC 17

RESULT 342
US-10-923-522-1129/c
; Sequence 1129, Application US/10923522
; Publication No. US20050159381A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: McSwiggen, James
; APPLICANT: Chowrira, Bharat
; APPLICANT: Beigelman, Leonid
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of Chromosome Translocation
```

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; PRIOR FILING DATE: 2003-10-23
; PRIOR APPLICATION NUMBER: US 10/444,853
; PRIOR FILING DATE: 2003-05-23
; PRIOR APPLICATION NUMBER: PCT/US03/05346
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1779
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 810
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Target Sequence/siNA sense
US-10-923-522-810

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 2.2e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 370 GCCCAAGCCGAGGCC 386
Db 2 GCCCAGCGCGAGCCC 18

RESULT 344
US-09-780-533A-2462/c
; Sequence 2462, Application US/09780533A
; Publication No. US20030060611A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyne Pharmaceuticals, Inc.
; APPLICANT: Blatt, Larry
; APPLICANT: McSwiggen, Jim
; APPLICANT: Chowrira, Bharat
; APPLICANT: Haeberli, Pete
; TITLE OF INVENTION: Method and Reagent for the Inhibition of NOGO Gene
; FILE REFERENCE: MBH00-878-A (400/011)
; CURRENT FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: US/09/780,533A
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: US 60/181,797
; NUMBER OF SEQ ID NOS: 6679
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2462
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-780-533A-2462

Query Match          0.5%; Score 15; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1098 TCTCTTCTTCATCTT 1112
Db 15 TCTCTTCTTCATCTT 1

RESULT 345
US-09-848-754A-2403/c
; Sequence 2403, Application US/09848754A
; Publication No. US20030073207A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyne Pharmaceuticals, Inc.
; TITLE OF INVENTION: Enzymatic Nucleic Acid Treatment of Diseases or Conditions Related to Epidermal Growth Factor Receptors
; FILE REFERENCE: MBH00-958-I (400/018)
; CURRENT APPLICATION NUMBER: US/09/848,754A
; CURRENT FILING DATE: 2001-05-03
; NUMBER OF SEQ ID NOS: 9645
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2403
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
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```
; TYPE: RNA
; ORGANISM: Homo sapiens
US-09-848-754A-2403

Query Match          0.5%; Score 15; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1203 CAGCGTGGCGCTTCCG 1217
Db 16 CAGCGTGGCGCTTCCG 2

RESULT 346
US-10-471-306-3/c
; Sequence 3, Application US/10471306
; Publication No. US20040110179A1
; GENERAL INFORMATION:
; APPLICANT: Shuber, Anthony P.
; TITLE OF INVENTION: Method For Alteration Detection
; FILE REFERENCE: EXT-047CP2
; CURRENT APPLICATION NUMBER: US/10/471,306
; PRIOR FILING DATE: 2003-09-08
; PRIOR APPLICATION NUMBER: PCT/US02/07926
; PRIOR FILING DATE: 2002-03-15
; PRIOR APPLICATION NUMBER: US 09/809,713
; PRIOR FILING DATE: 2001-03-15
; PRIOR APPLICATION NUMBER: US 09/988,491
; PRIOR FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Probe upstream of the 1450 point mutation region
US-10-471-306-3

Query Match          0.5%; Score 15; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 283 CTCACACCACTCTCTC 297
Db 17 CTCACACCACTCTCTC 3

RESULT 347
US-10-712-672-2431
; Sequence 2431, Application US/10712672
; Publication No. US20040102413A1
; GENERAL INFORMATION:
; APPLICANT: Ribozyne Pharmaceuticals, Inc.
; APPLICANT: Chowrira, Bharat
; APPLICANT: McSwiggen, Jim
; APPLICANT: Stinchcomb, Dan
; TITLE OF INVENTION: Method and Reagent for the Inhibition of Telomerase Enzyme
; FILE REFERENCE: MBH00-882-C (400/019)
; CURRENT APPLICATION NUMBER: US/10/712,672
; CURRENT FILING DATE: 2003-11-13
; PRIOR APPLICATION NUMBER: US/09/653,225
; PRIOR FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: 60/197,769
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/150,713
; PRIOR FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 5586
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2431
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Homo sapiens
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US-10-712-672-2431

Query Match 0.5%; Score 15; DB 1; Length 17;  
Best Local Similarity 86.7%; Pred. No. 2.1e+02;  
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2791 GCCAGCAGGTGCCT 2805  
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Db 2 GCCAGCAGGUGGCCU 16

RESULT 348

US-10-388-360-284/c  
; Sequence 284, Application US/10388360  
; Publication No. US20030225528A1  
; GENERAL INFORMATION:  
; APPLICANT: GENOMIC HEALTH  
; APPLICANT: Baker, Joffe B.  
; APPLICANT: Cronin, Maureen T.  
; APPLICANT: Kiefer, Michael C.  
; APPLICANT: Shak, Steve  
; APPLICANT: Walker, Michael Graham  
; TITLE OF INVENTION: GENE EXPRESSION PROFILING IN BIOPSIED TUMOR TISSUES  
; FILE REFERENCE: 39740-0001US  
; CURRENT APPLICATION NUMBER: US/10/388,360  
; CURRENT FILING DATE: 2003-03-12  
; PRIOR APPLICATION NUMBER: US 60/412,049  
; PRIOR FILING DATE: 2002-09-18  
; PRIOR APPLICATION NUMBER: US 60/364,890  
; PRIOR FILING DATE: 2002-03-13  
; NUMBER OF SEQ ID NOS: 394  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 284  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-388-360-284

Query Match 0.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2755 GTGGTCCCAGGCTGC 2769  
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Db 15 GTGGTCCCAGGCTGC 1

RESULT 349

US-10-473-126-87/c  
; Sequence 87, Application US/10473126  
; Publication No. US20040234973A1  
; GENERAL INFORMATION:  
; APPLICANT: Epigenomics AG  
; TITLE OF INVENTION: Methods and nucleic acids for the analysis of hematopoietic cell  
; TITLE OF INVENTION: proliferative disorders  
; FILE REFERENCE:  
; CURRENT APPLICATION NUMBER: US/10/473,126  
; CURRENT FILING DATE: 2003-09-26  
; NUMBER OF SEQ ID NOS: 1258  
; SEQ ID NO 87  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Homo Sapiens  
US-10-473-126-87

Query Match 0.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 659 GCGGCGGCGCGGGG 673  
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Db 18 GCGGCGGCGCGGGG 4

RESULT 350

US-10-758-307-424/c  
; Sequence 424, Application US/10758307  
; Publication No. US20040209290A1  
; GENERAL INFORMATION:  
; APPLICANT: GENOMIC HEALTH, INC.  
; APPLICANT: RUSH UNIVERSITY MEDICAL CENTER  
; APPLICANT: Cobleigh, Melody  
; APPLICANT: Shak, Steven  
; APPLICANT: Baker, Joffe  
; APPLICANT: Cronin, Maureen  
; TITLE OF INVENTION: GENE EXPRESSION MARKERS FOR BREAST  
; TITLE OF INVENTION: CANCER PROGNOSIS  
; FILE REFERENCE: 39740/0008 US  
; CURRENT APPLICATION NUMBER: US/10/758,307  
; CURRENT FILING DATE: 2004-01-14  
; PRIOR APPLICATION NUMBER: US 60/440,861  
; PRIOR FILING DATE: 2003-01-15  
; NUMBER OF SEQ ID NOS: 440  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 424  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: reverse primer  
US-10-758-307-424

Query Match 0.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2755 GTGGTCCCAGGCTGC 2769  
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Db 15 GTGGTCCCAGGCTGC 1

RESULT 351

US-10-773-951-102/c  
; Sequence 102, Application US/10773951  
; Publication No. US20040157255A1  
; GENERAL INFORMATION:  
; APPLICANT: Agus, David  
; APPLICANT: Shak, Steven  
; APPLICANT: Cronin, Maureen  
; APPLICANT: Baker, Joffe  
; TITLE OF INVENTION: Gene Expression Markers for Response to  
; TITLE OF INVENTION: EGFR Inhibitor Drugs  
; FILE REFERENCE: 39740/0009  
; CURRENT APPLICATION NUMBER: US/10/773,951  
; CURRENT FILING DATE: 2004-02-06  
; PRIOR APPLICATION NUMBER: 60/445,968  
; PRIOR FILING DATE: 2003-02-06  
; NUMBER OF SEQ ID NOS: 108  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 102  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: reverse primer  
US-10-773-951-102

Query Match 0.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 2.2e+02;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2755 GTGGTCCCAGGCTGC 2769  
|||||:||||:  
Db 15 GTGGTCCCAGGCTGC 1



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RESULT 352
US-10-852-797-266/c
; Sequence 266, Application US/10852797
; Publication No. US20050064455A1
; GENERAL INFORMATION:
; APPLICANT: Genomic Health, Inc.
; APPLICANT: Baker, Joffre
; APPLICANT: Miller, Kathy D.
; APPLICANT: Shak, Steven
; APPLICANT: Sledge, George
; APPLICANT: Soule, Sharon
; TITLE OF INVENTION: Gene Expression Markers for Predicting
; TITLE OF INVENTION: Response to Chemotherapy
; FILE REFERENCE: 39740-0010
; CURRENT APPLICATION NUMBER: US/10/852,797
; CURRENT FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: 60/473,970
; PRIOR FILING DATE: 2003-05-28
; NUMBER OF SEQ ID NOS: 372
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 266
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: reverse primer
US-10-852-797-266

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Query Match      0.5%; Score 15; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2755 GTGGTCCCGAGGCTGC 2769
Db 15 GTGGTCCCGAGGCTGC 1

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Search completed: February 7, 2006, 14:36:38
Job time : 15 secs

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Result No.	Score	Query			DB	ID	Description
		Match	Length	Match			
1	65	2.3	65	1	CQ534876	ACCESSION: CQ534876	
2	63.4	2.2	65	1	CQ557245	ACCESSION: CQ557245	
3	40.2	1.4	45	1	AR212393	ACCESSION: AR212393	
4	38.6	1.4	45	1	AR212387	ACCESSION: AR212387	
5	38.6	1.4	45	1	AR212391	ACCESSION: AR212391	
6	38.6	1.4	45	1	AR212396	ACCESSION: AR212396	
7	37	1.3	45	1	AR212394	ACCESSION: AR212394	
8	37	1.3	45	1	AR212395	ACCESSION: AR212395	
9	26.8	0.9	30	1	AR202764	ACCESSION: AR202764	
10	26.8	0.9	30	1	I84403	ACCESSION: I84403	
11	25.4	0.9	28	1	AR120087	ACCESSION: AR120087	
12	23.8	0.8	28	1	AR120088	ACCESSION: AR120088	
13	23.8	0.8	28	1	AR120089	ACCESSION: AR120089	
14	21.2	0.7	26	1	CS077915	ACCESSION: CS077915	
15	21.2	0.7	26	1	CS097996	ACCESSION: CS097996	
16	20.2	0.7	25	1	AR028113	ACCESSION: AR028113	
17	20.2	0.7	25	1	AR030289	ACCESSION: AR030289	
18	20.2	0.7	25	1	I42108	ACCESSION: I42108	
19	19	0.7	21	1	AX154033	ACCESSION: AX154033	
20	18.8	0.7	22	1	BD062204	ACCESSION: BD062204	
21	17.8	0.6	21	1	A28676	ACCESSION: A28676	
22	17.8	0.6	21	1	AR084552	ACCESSION: AR084552	
23	17.8	0.6	21	1	AR084563	ACCESSION: AR084563	
24	17.8	0.6	21	1	AR084564	ACCESSION: AR084564	
25	17.8	0.6	21	1	AR084566	ACCESSION: AR084566	
26	17.8	0.6	21	1	AR084567	ACCESSION: AR084567	
27	17.8	0.6	21	1	AR084570	ACCESSION: AR084570	
28	17.8	0.6	21	1	AR084575	ACCESSION: AR084575	
29	17.8	0.6	21	1	AR084579	ACCESSION: AR084579	
30	17.8	0.6	21	1	AR084581	ACCESSION: AR084581	
31	17.8	0.6	21	1	AR084594	ACCESSION: AR084594	
32	17.8	0.6	21	1	AR097224	ACCESSION: AR097224	
33	17.8	0.6	21	1	AR217926	ACCESSION: AR217926	

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C 107 16 0.6 17 1 A27314 ACCESSION:A27314
C 108 16 0.6 17 1 AR242714 ACCESSION:AR242714
C 109 16 0.6 17 1 AR381869 ACCESSION:AR381869
C 110 16 0.6 19 1 AR038671 ACCESSION:AR038671
C 111 16 0.6 19 1 AR305293 ACCESSION:AR305293
C 112 16 0.6 19 1 AR309397 ACCESSION:AR309397
C 113 16 0.6 19 1 BD106204 ACCESSION:BD106204
C 114 16 0.6 45 1 AR212395 ACCESSION:AR212395
C 115 15.8 0.6 45 1 AR037410 ACCESSION:AR037410
C 116 15.8 0.6 19 1 AR397726 ACCESSION:AR397726
C 117 15.8 0.6 19 1 AX268963 ACCESSION:AX268963
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C 119 15.8 0.6 19 1 CQ965531 ACCESSION:CQ965531
C 120 15.8 0.6 19 1 CS091952 ACCESSION:CS091952
C 121 15.8 0.6 19 1 CS092126 ACCESSION:CS092126
C 122 15.8 0.6 19 1 CS136329 ACCESSION:CS136329
C 123 15.8 0.6 19 1 CS136404 ACCESSION:CS136404
C 124 15.8 0.6 19 1 I57438 ACCESSION:I57438
C 125 15.4 0.5 17 1 AR042887 ACCESSION:AR042887
C 126 15.4 0.5 17 1 AR045385 ACCESSION:AR045385
C 127 15.4 0.5 17 1 I37474 ACCESSION:I37474
C 128 15.4 0.5 17 1 I37550 ACCESSION:I37550
C 129 15.4 0.5 17 1 I52437 ACCESSION:I52437
C 130 15.4 0.5 17 1 I94324 ACCESSION:I94324
C 131 15.4 0.5 17 1 I94400 ACCESSION:I94400
C 132 15.4 0.5 18 1 A67594 ACCESSION:A67594
C 133 15.4 0.5 18 1 AR084528 ACCESSION:AR084528
C 134 15.4 0.5 18 1 AR089732 ACCESSION:AR089732
C 135 15.4 0.5 18 1 AR196700 ACCESSION:AR196700
C 136 15.4 0.5 18 1 AR266212 ACCESSION:AR266212
C 137 15.4 0.5 18 1 AR581581 ACCESSION:AR581581
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C 139 15.4 0.5 18 1 AX635802 ACCESSION:AX635802
C 140 15.4 0.5 18 1 AX635851 ACCESSION:AX635851
C 141 15.4 0.5 18 1 CS004913 ACCESSION:CS004913
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C 144 15.4 0.5 18 1 I39699 ACCESSION:I39699
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C 151 15 0.5 18 1 CQ859936 ACCESSION:CQ859936
C 152 15 0.5 18 1 CQ876574 ACCESSION:CQ876574
C 153 15 0.5 18 1 CQ975309 ACCESSION:CQ975309
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C 165 14.8 0.5 18 1 AR200286 ACCESSION:AR200286
C 166 14.8 0.5 18 1 AR205641 ACCESSION:AR205641
C 167 14.8 0.5 18 1 AR215487 ACCESSION:AR215487
C 168 14.8 0.5 18 1 AR21243 ACCESSION:AR21243
C 169 14.8 0.5 18 1 AR256259 ACCESSION:AR256259
C 170 14.8 0.5 18 1 AR262417 ACCESSION:AR262417
C 171 14.8 0.5 18 1 AR262418 ACCESSION:AR262418
C 172 14.8 0.5 18 1 AR391606 ACCESSION:AR391606
C 173 14.8 0.5 18 1 AR431114 ACCESSION:AR431114
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C 175 14.8 0.5 18 1 AR612302 ACCESSION:AR612302
C 176 14.8 0.5 18 1 AR613539 ACCESSION:AR613539
C 177 14.8 0.5 18 1 AR647109 ACCESSION:AR647109
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C 180 14.8 0.5 18 1 AX047272 ACCESSION:AX047272
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C 183 14.8 0.5 18 1 AX118563 ACCESSION:AX118563
C 184 14.8 0.5 18 1 AX599674 ACCESSION:AX599674
C 185 14.8 0.5 18 1 AX828907 ACCESSION:AX828907
C 186 14.8 0.5 18 1 AX828987 ACCESSION:AX828987
C 187 14.8 0.5 18 1 BD015322 ACCESSION:BD015322
C 188 14.8 0.5 18 1 BD124005 ACCESSION:BD124005
C 189 14.8 0.5 18 1 BD217401 ACCESSION:BD217401
C 190 14.8 0.5 18 1 BD238193 ACCESSION:BD238193
C 191 14.8 0.5 18 1 I27811 ACCESSION:I27811
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C 193 14.8 0.5 18 1 I82928 ACCESSION:I82928
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## ALIGNMENTS

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RESULT 1
CQ534876 65 bp DNA linear PAT 30-JAN-2004
LOCUS Sequence 4511 from Patent WO0210449.
DEFINITION CQ534876
ACCESSION CQ534876
VERSION CQ534876.1 GI:41501140
KEYWORDS Rattus norvegicus (Norway rat)
SOURCE Rattus norvegicus
ORGANISM Rattus norvegicus
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
Sciurognathi; Muridea; Muridae; Murinae; Rattus.
REFERENCE
1 Shoshan,A., Wasserman,A., Mintz,E., Mintz,L. and Faigler,S.
Oligonucleotide library for detecting rna transcripts and splice
variants that populate a transcriptome
Patent: WO 0210449-A 4511 07-FEB-2002;
CompuGen Inc. (US)
FEATURES
source
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/organism="Rattus norvegicus"
/mol_type="unassigned DNA"
/db_xref="taxon:10116"
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Best Local Similarity 100.0%; Pred. No. 0.029;
Matches 65; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 2794 AGCAGTGGCCTGCTGAAGTTCAGTTGAAGGCAGATTGCCCTTCTGGGGTCACTGCTTCA 2853
Db 1 AGCAGTGGCCTGCTGAAGTTCAGTTGAAGGCAGATTGCCCTTCTGGGGTCACTGCTTCA 60
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QY 2854 CTAGC 2858
Db 61 CTAGC 65
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RESULT 2
CQ557245 65 bp DNA linear PAT 30-JAN-2004
LOCUS Sequence 26880 from Patent WO0210449.
DEFINITION CQ557245
ACCESSION CQ557245
VERSION CQ557245.1 GI:41523672
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KEYWORDS Mus musculus (house mouse)
SOURCE Mus musculus
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
Sciurognathi; Muridea; Muridae; Murinae; Mus.
REFERENCE
1 Shoshan,A., Wasserman,A., Mintz,E., Mintz,L. and Faigler,S.
Oligonucleotide library for detecting rna transcripts and splice
variants that populate a transcriptome
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JOURNAL Patent: US 6399761-A 56 04-JUN-2002;
FEATURES Location/Qualifiers
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    1.3%; Score 37; DB 1; Length 45;
Best Local Similarity 88.9%; Pred. No. 3.7;
Matches 40; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1684 TGGTGGCGCTGGTGCATCACCATGACAAAGCTTGGCTATGGGACATG 1728
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Db 1 TGGTGGCGCGTGGTGCATCACCATGACGACCCCTGGGCTATGGGACATG 45

RESULT 8
AR212395
LOCUS AR212395 45 bp DNA linear PAT 20-JUN-2002
DEFINITION Sequence 57 from patent US 6399761.
ACCESSION AR212395
VERSION AR212395.1 GI:21515957
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 45)
AUTHORS Miller,A.P., Hu,P., Curran,M.Edward., Rutter,M. and Jiang-Yang,W.
TITLE Nucleic acid encoding human potassium channel K+ nov1 protein
JOURNAL Patent: US 6399761-A 57 04-JUN-2002;
FEATURES Location/Qualifiers
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Query Match
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Best Local Similarity 88.9%; Pred. No. 3.7;
Matches 40; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1684 TGGTGGCGCTGGTGCATCACCATGACAAAGCTTGGCTATGGGACATG 1728
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Db 1 TGGTGGCGCTGGTGCATCACCATGACGACACTGGGCTACGGAGACATG 45

RESULT 9
AR202764
LOCUS AR202764 30 bp DNA linear PAT 20-JUN-2002
DEFINITION Sequence 12 from patent US 6365344.
ACCESSION AR202764
VERSION AR202764.1 GI:21498978
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 30)
AUTHORS Nolan,G.P. and Rothenberg,S.Michael.
TITLE Methods for screening for transdominant effector peptides and RNA
JOURNAL Patent: US 6365344-A 12 02-APR-2002;
FEATURES Location/Qualifiers
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Best Local Similarity 93.3%; Pred. No. 22;
Matches 28; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 273 CCTCTCTCTCTCCACACCTCTCTCTCTCT 302
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Db 1 CCTCTCTCTCTCTCTCTCTCTCTCTCTCT 30

RESULT 10
AR212395
LOCUS AR212395 45 bp DNA linear PAT 20-JUN-2002
DEFINITION Sequence 57 from patent US 6399761.
ACCESSION AR212395
VERSION AR212395.1 GI:21515957
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 45)
AUTHORS Miller,A.P., Hu,P., Curran,M.Edward., Rutter,M. and Jiang-Yang,W.
TITLE Nucleic acid encoding human potassium channel K+ nov1 protein
JOURNAL Patent: US 6399761-A 57 04-JUN-2002;
FEATURES Location/Qualifiers
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    /organism="unknown"
    /mol_type="unassigned DNA"

Query Match
    1.3%; Score 37; DB 1; Length 45;
Best Local Similarity 88.9%; Pred. No. 3.7;
Matches 40; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1684 TGGTGGCGCTGGTGCATCACCATGACAAAGCTTGGCTATGGGACATG 1728
      |||||
Db 1 TGGTGGCGCGTGGTGCATCACCATGACGACCCCTGGGCTATGGGACATG 45

RESULT 11
AR120087/c
LOCUS AR120087/c 28 bp DNA linear PAT 16-MAY-2001
DEFINITION Sequence 1 from patent US 6153596.
ACCESSION AR120087
VERSION AR120087.1 GI:14102786
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 28)
AUTHORS Liotta,D.C., Petros,J.A., Wey,S.-J., Karr,J.F. and Pohl,J.
TITLE Polycationic oligomers
JOURNAL Patent: US 6153596-A 1 28-NOV-2000;
FEATURES Location/Qualifiers
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Query Match
    0.9%; Score 25.4; DB 1; Length 28;
Best Local Similarity 96.3%; Pred. No. 28;
Matches 26; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 275 TCCTCTCTCTCTCCACACCTCTCTCTCTCC 301
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Db 28 TCCTCTCTCTCTCTCTCTCTCTCTCTCTCC 2

RESULT 12
AR120088/c
LOCUS AR120088/c 28 bp DNA linear PAT 16-MAY-2001
DEFINITION Sequence 2 from patent US 6153596.
ACCESSION AR120088
VERSION AR120088.1 GI:14102787
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 28)
AUTHORS Liotta,D.C., Petros,J.A., Wey,S.-J., Karr,J.F. and Pohl,J.
TITLE Polycationic oligomers
JOURNAL Patent: US 6153596-A 2 28-NOV-2000;
FEATURES Location/Qualifiers
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Best Local Similarity 93.3%; Pred. No. 22;
Matches 28; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 273 CCTCTCTCTCTCCACACCTCTCTCTCTCT 302
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Db 1 CCTCTCTCTCTCTCTCTCTCTCTCTCTCT 30
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Query Match 0.8%; Score 23.8; DB 1; Length 28;  
Best Local Similarity 92.6%; Pred. No. 36;  
Matches 25; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 276 CTTCTCTCTCCACCACTCTCTCTCT 302  
DB 27 CTTCTCTCTCCACCTCTCTCTCTCT 1

RESULT 13  
LOCUS ARL120089 28 bp DNA linear PAT 16-MAY-2001  
DEFINITION Sequence 3 from patent US 6153596.  
ACCESSION ARL120089  
VERSION ARL120089.1 GI:14102788  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 28)  
AUTHORS Liotta,D.C., Petros,J.A., Wey,S.-J., Karr,J.F. and Pohl,J.  
TITLE Polycationic oligomers  
JOURNAL Patent: US 6153596-A 3 28-NOV-2000;  
FEATURES Location/Qualifiers  
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/mol\_type="unassigned DNA"

Query Match 0.8%; Score 23.8; DB 1; Length 28;  
Best Local Similarity 92.6%; Pred. No. 36;  
Matches 25; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 276 CTTCTCTCTCCACCACTCTCTCTCT 302  
DB 2 CTTCTCTCTCCACCTCTCTCTCTCT 28

RESULT 14  
LOCUS CS077915 26 bp DNA linear PAT 06-MAY-2005  
DEFINITION Sequence 33 from Patent WO2005035579.  
ACCESSION CS077915  
VERSION CS077915.1 GI:63093003  
KEYWORDS  
SOURCE synthetic construct  
ORGANISM synthetic construct  
REFERENCE 1  
AUTHORS Bates,P.J., Miller,D.M., Trent,J.O. and Xu,X.  
TITLE A method for the treatment of malignant diseases by inhibiting nucleolin  
JOURNAL Patent: WO 2005035579-A 33 21-APR-2005;  
UNIVERSITY OF LOUISVILLE RESEARCH FOUNDATION (US)  
FEATURES Location/Qualifiers  
source  
1..26  
/organism="synthetic construct"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:32630"  
/note="Description of Artificial Sequence: Synthetic polynucleotide sequence"

Query Match 0.7%; Score 21.2; DB 1; Length 26;  
Best Local Similarity 88.5%; Pred. No. 56;  
Matches 23; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 273 CTTCTCTCTCTCCACCACTCTCTCC 298  
DB 1 CTTCTCTCTCTCTCTCTCTCTCTCTCC 26

RESULT 15  
LOCUS CS097996 26 bp DNA linear PAT 03-JUN-2005  
DEFINITION Sequence 34 from Patent WO2005037323.  
ACCESSION CS097996  
VERSION CS097996.1 GI:66954241  
KEYWORDS  
SOURCE synthetic construct  
ORGANISM synthetic construct  
REFERENCE 1  
AUTHORS Bates,P.J., Girvan,A.C. and Barve,S.S.  
TITLE Method for inhibiting nf-kappa b signaling and use to treat or prevent human diseases  
JOURNAL Patent: WO 2005037323-A 34 28-APR-2005;  
UNIVERSITY OF LOUISVILLE RESEARCH FOUNDATION, INC. (US)  
FEATURES Location/Qualifiers  
source  
1..26  
/organism="synthetic construct"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:32630"  
/note="Description of Artificial Sequence: Synthetic polynucleotide sequence"

Query Match 0.7%; Score 21.2; DB 1; Length 26;  
Best Local Similarity 88.5%; Pred. No. 56;  
Matches 23; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 273 CTTCTCTCTCTCCACCACTCTCTCC 298  
DB 1 CTTCTCTCTCTCTCTCTCTCTCTCTCC 26

RESULT 16  
LOCUS AR028113 25 bp DNA linear PAT 29-SEP-1999  
DEFINITION Sequence 3 from patent US 5858649.  
ACCESSION AR028113  
VERSION AR028113.1 GI:5940086  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 25)  
AUTHORS Asgari,M., Blick,M., Bresser,J., Cubbage,M.Lee. and Prashad,N.  
TITLE Amplification of mRNA for distinguishing fetal cells in maternal blood  
JOURNAL Patent: US 5858649-A 3 12-JAN-1999;  
FEATURES Location/Qualifiers  
source  
1..25  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 0.7%; Score 20.2; DB 1; Length 25;  
Best Local Similarity 88.0%; Pred. No. 65;  
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGCGCGGC 675  
DB 1 CGGCAGCGCGCGCGCGCGCGGC 25

RESULT 17  
LOCUS AR030289 25 bp DNA linear PAT 29-SEP-1999  
DEFINITION Sequence 3 from patent US 5861253.  
ACCESSION AR030289  
VERSION AR030289.1 GI:5943503  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 25)  
AUTHORS Asgari,M., Blick,M., Bresser,J., Cubbage,M.Lee. and Prashad,N.  
TITLE Intracellular antigens for identifying fetal cells in maternal

```

Db
1 TTACCTACATYAGGGCGTCT 21
|||||:|||||
|||||:|||||

RESULT 20
BD062204 22 bp DNA linear PAT 27-AUG-2002
LOCUS
Gene diagnostic agent/gene therapeutic agent of tumor using tumor
specific antigen and novel application of proton pump inhibitor as
antitumor drug.

ACCESSION
BD062204
VERSION
BD062204.1 GI:22607809
KEYWORDS
JP 2001286284-A/11.
SOURCE
synthetic construct
ORGANISM
synthetic construct
other sequences; artificial sequences.

REFERENCE
1 (bases 1 to 22)
Sato,N., Suzuki,N., Yamaguchi,M., Yamaguchi,N. and Oku,K.
Gene diagnostic agent/gene therapeutic agent of tumor using tumor
specific antigen and novel application of proton pump inhibitor as
antitumor drug
Patent: JP 2001286284-A 11 16-OCT-2001;
NOBUO SATO,NOBUTAKA SUZUKI,MASAAKI YAMAGUCHI
OS Artificial Sequence
PN JP 2001286284-A/11
PD 16-OCT-2001
PF 05-APR-2000 JP 2000103966
PI NORUO SATO,NOBUTAKA SUZUKI,MASAAKI YAMAGUCHI,NOBUO YAMAGUCHI,
PI KATSUJI OKUMA
PC C12N15/09,A61K35/14,A61K38/55,A61K39/395,A61K39/395,A61K45/00,
PC A61K48/00,
PC A61P35/00,C07K7/06,C07K7/08,C07K14/705,C07K16/28,C12N1/15, PC
C12N1/19,
PC
C12N1/21,C12N5/10,C12N9/99,C12Q1/68,G01N33/15,G01N33/50,G01N33/ PC
574,
PC G01N33/577//C12P21/08,C12N15/00,A61K37/64,C12N5/00 CC
Description of Artificial Sequence:synthetic DNA FH Key
Location/Qualifiers
Location/Qualifiers
1. .22
/organism="synthetic construct"
/mol_type="genomic DNA"
/db_xref="taxon:32630"

Query Match 0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 84;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1332 CAAGAACCTGCTCAACATCATC 1353
|||||
1 CAAGAACCTGGTCAGCATCATC 22

Db
1332 CAAGAACCTGCTCAACATCATC 1353
|||||
1 CAAGAACCTGGTCAGCATCATC 22

RESULT 21
A28676/c
LOCUS
A28676 21 bp RNA linear PAT 04-JUN-1995
DEFINITION
dRNA with central hinge (comp.).
ACCESSION
A28676
VERSION
A28676.1 GI:1248715
KEYWORDS
synthetic construct
SOURCE
synthetic construct
other sequences; artificial sequences.
1 (bases 1 to 21)

REFERENCE
.
AUTHORS
.
TITLE
SHORT THERAPEUTIC dsRNA OF DEFINED STRUCTURE
JOURNAL
Patent: WO 9014090-A 4 29-NOV-1990;
FEATURES
Location/Qualifiers
1. .21
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
source

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Query Match      0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 98;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 208 GGGGGTGGGGTGGGGGGGAGG 228
      ||||| ||||| ||||| ||||| |||||
Db 21 GGGGGGGGGTGGGGGGGGG 1

RESULT 22
AR084552/c
LOCUS AR084552 21 bp DNA linear PAT 01-SEP-2000
DEFINITION Sequence 41 from patent US 5981185.
ACCESSION AR084552
VERSION AR084552.1 GI:10011323
KEYWORDS
SOURCE
ORGANISM
REFERENCE 1 (bases 1 to 21)
AUTHORS Matson,R.S., Coassin,P.J., Rampal,J.B. and Caskey,C.Thomas.
TITLE Oligonucleotide repeat arrays
JOURNAL Patent: US 5981185-A 41 09-NOV-1999;
FEATURES Location/Qualifiers
source
  /organism="unknown"
  /mol_type="unassigned DNA"

Query Match      0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 98;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 273 CCTCTCTCTCTCCACACCT 293
      ||||| ||||| ||||| ||||| |||||
Db 1 CCTCTCTCTCTCTCTCTCT 21

RESULT 25
AR084566/c
LOCUS AR084566 21 bp DNA linear PAT 01-SEP-2000
DEFINITION Sequence 55 from patent US 5981185.
ACCESSION AR084566
VERSION AR084566.1 GI:10011337
KEYWORDS
SOURCE
ORGANISM
REFERENCE 1 (bases 1 to 21)
AUTHORS Matson,R.S., Coassin,P.J., Rampal,J.B. and Caskey,C.Thomas.
TITLE Oligonucleotide repeat arrays
JOURNAL Patent: US 5981185-A 55 09-NOV-1999;
FEATURES Location/Qualifiers
source
  /organism="unknown"
  /mol_type="unassigned DNA"

Query Match      0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 98;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 650 GCGCAGCAGCGCGCGCGCG 670
      ||||| ||||| ||||| ||||| |||||
Db 21 GCGCGCGCGCGCGCGCGCG 1

RESULT 26
AR084567
LOCUS AR084567 21 bp DNA linear PAT 01-SEP-2000
DEFINITION Sequence 56 from patent US 5981185.
ACCESSION AR084567
VERSION AR084567.1 GI:10011338
KEYWORDS
SOURCE
ORGANISM
REFERENCE 1 (bases 1 to 21)
AUTHORS Matson,R.S., Coassin,P.J., Rampal,J.B. and Caskey,C.Thomas.
TITLE Oligonucleotide repeat arrays
JOURNAL Patent: US 5981185-A 56 09-NOV-1999;
FEATURES Location/Qualifiers
source
  /organism="unknown"
  /mol_type="unassigned DNA"

Query Match      0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 98;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 651 CGGCAGCAGCGCGCGCGCG 671
      ||||| ||||| ||||| ||||| |||||
Db 21 CGCGCGCGCGCGCGCGCG 1

RESULT 24
AR084564
LOCUS AR084564 21 bp DNA linear PAT 01-SEP-2000
DEFINITION Sequence 53 from patent US 5981185.
ACCESSION AR084564
VERSION AR084564.1 GI:10011335
KEYWORDS
```

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Db      1  CGCGCGCGCGCGCGCGCGCG 21
||||| || || ||||| ||||| |||||
Query Match      0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 98;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

RESULT 27
AR084570
LOCUS      21 bp      DNA      linear      PAT 01-SEP-2000
DEFINITION Sequence 59 from patent US 5981185.
ACCESSION AR084570
VERSION AR084570.1 GI:10011341
KEYWORDS
SOURCE
ORGANISM
REFERENCE 1 (bases 1 to 21)
AUTHORS Matson,R.S., Coassin,P.J., Rampal,J.B. and Caskey,C.Thomas.
TITLE Oligonucleotide repeat arrays
JOURNAL Patent: US 5981185-A 59 09-NOV-1999;
FEATURES
    source
        /organism="unknown"
        /mol_type="unassigned DNA"

Query Match      0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 98;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      274  CTCCTCTCTCTCCACCACTC 294
||||| ||||| ||||| |||||
Db      1  CTCCTCTCTCTCTCTCTCTC 21

RESULT 28
AR084575/C
LOCUS      21 bp      DNA      linear      PAT 01-SEP-2000
DEFINITION Sequence 64 from patent US 5981185.
ACCESSION AR084575
VERSION AR084575.1 GI:10011346
KEYWORDS
SOURCE
ORGANISM
REFERENCE 1 (bases 1 to 21)
AUTHORS Matson,R.S., Coassin,P.J., Rampal,J.B. and Caskey,C.Thomas.
TITLE Oligonucleotide repeat arrays
JOURNAL Patent: US 5981185-A 64 09-NOV-1999;
FEATURES
    source
        /organism="unknown"
        /mol_type="unassigned DNA"

Query Match      0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 98;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      274  CTCCTCTCTCTCTCTCTCTC 294
||||| ||||| ||||| |||||
Db      1  CTCCTCTCTCTCTCTCTCTC 21

RESULT 29
AR084579
LOCUS      21 bp      DNA      linear      PAT 01-SEP-2000
DEFINITION Sequence 68 from patent US 5981185.
ACCESSION AR084579
VERSION AR084579.1 GI:10011350
KEYWORDS
SOURCE
ORGANISM
REFERENCE 1 (bases 1 to 21)
AUTHORS Matson,R.S., Coassin,P.J., Rampal,J.B. and Caskey,C.Thomas.
TITLE Oligonucleotide repeat arrays

JOURNAL Patent: US 5981185-A 68 09-NOV-1999;
FEATURES
    source
        /organism="unknown"
        /mol_type="unassigned DNA"

Query Match      0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 98;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      274  CTCCTCTCTCTCTCTCTCTC 294
||||| ||||| ||||| |||||
Db      1  CTCCTCTCTCTCTCTCTCTC 1

RESULT 30
AR084581/C
LOCUS      21 bp      DNA      linear      PAT 01-SEP-2000
DEFINITION Sequence 70 from patent US 5981185.
ACCESSION AR084581
VERSION AR084581.1 GI:10011352
KEYWORDS
SOURCE
ORGANISM
REFERENCE 1 (bases 1 to 21)
AUTHORS Matson,R.S., Coassin,P.J., Rampal,J.B. and Caskey,C.Thomas.
TITLE Oligonucleotide repeat arrays
JOURNAL Patent: US 5981185-A 70 09-NOV-1999;
FEATURES
    source
        /organism="unknown"
        /mol_type="unassigned DNA"

Query Match      0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 98;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      650  GCGGCAGCAGCGCGCGCGCGCG 670
||||| ||||| ||||| |||||
Db      1  GCGGCAGCAGCGCGCGCGCGCG 21

RESULT 31
AR084594
LOCUS      21 bp      DNA      linear      PAT 01-SEP-2000
DEFINITION Sequence 83 from patent US 5981185.
ACCESSION AR084594
VERSION AR084594.1 GI:10011365
KEYWORDS
SOURCE
ORGANISM
REFERENCE 1 (bases 1 to 21)
AUTHORS Matson,R.S., Coassin,P.J., Rampal,J.B. and Caskey,C.Thomas.
TITLE Oligonucleotide repeat arrays
JOURNAL Patent: US 5981185-A 83 09-NOV-1999;
FEATURES
    source
        /organism="unknown"
        /mol_type="unassigned DNA"

Query Match      0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 98;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      275  TCCTCTCTCTCTCCACCACTCC 295
||||| ||||| ||||| |||||
Db      21  TCCTCTCTCTCTCTCTCTCC 1

RESULT 32
AR097224
LOCUS      21 bp      DNA      linear      PAT 01-SEP-2000
DEFINITION Sequence 83 from patent US 5981185.
ACCESSION AR097224
VERSION AR097224.1 GI:10011365
KEYWORDS
SOURCE
ORGANISM
REFERENCE 1 (bases 1 to 21)
AUTHORS Matson,R.S., Coassin,P.J., Rampal,J.B. and Caskey,C.Thomas.
TITLE Oligonucleotide repeat arrays
JOURNAL Patent: US 5981185-A 83 09-NOV-1999;
FEATURES
    source
        /organism="unknown"
        /mol_type="unassigned DNA"

Query Match      0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 98;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      275  TCCTCTCTCTCTCCACCACTCC 295
||||| ||||| ||||| |||||
Db      1  TCCTCTCTCTCTCTCTCTCC 21
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LOCUS       AR097224               21 bp  DNA  linear  PAT 14-FEB-2001
DEFINITION   Sequence 5 from patent US 6071695.
ACCESSION    AR097224
VERSION      AR097224.1  GI:12805954
KEYWORDS     .
SOURCE       Unknown.
ORGANISM     Unclassified.
REFERENCE    1 (bases 1 to 21)
AUTHORS      Ozkaynak,E. and Oppermann,H.
TITLE        Methods and products for identification of modulators of osteogenic
              protein-1 gene expression
JOURNAL      Patent: US 6071695-A 5 06-JUN-2000;
FEATURES     Location/Qualifiers
              source
              1..21
                /organism="unknown"
                /mol_type="unassigned DNA"

Query Match      0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 98;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY  275 TCCTCTCTCTCCACCACCTCC 295
Db  1 TCCTCTCTCTCTCTCTCTCTCC 21

RESULT 33
LOCUS       AR217926               21 bp  DNA  linear  PAT 25-SEP-2002
DEFINITION   Sequence 7 from patent US 6417208.
ACCESSION    AR217926
VERSION      AR217926.1  GI:23318055
KEYWORDS     .
SOURCE       Unknown.
ORGANISM     Unclassified.
REFERENCE    1 (bases 1 to 21)
AUTHORS      Michaeli,T.H.
TITLE        Method of identification of inhibitors of PDE1C
JOURNAL      Patent: US 6417208-A 7 09-JUL-2002;
              Albert Einstein College of Medicine of Yeshiva University; Bronx,
              NY
FEATURES     Location/Qualifiers
              source
              1..21
                /organism="unknown"
                /mol_type="genomic DNA"

Query Match      0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 98;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY  208 GGGGGTGGGCTGGGGGGAGG 228
Db  1 GGGGGTGGGCTGGGTGAGAGG 21

RESULT 34
LOCUS       AR594329               21 bp  DNA  linear  PAT 15-DEC-2004
DEFINITION   Sequence 7 from patent US 6812239.
ACCESSION    AR594329
VERSION      AR594329.1  GI:56643965
KEYWORDS     .
SOURCE       Unknown.
ORGANISM     Unclassified.
REFERENCE    1 (bases 1 to 21)
AUTHORS      Michaeli,T.H.
TITLE        Method of identification of inhibitors of PDE1C and methods of
              treatment of diabetes
JOURNAL      Patent: US 6812239-A 7 02-NOV-2004;
              Albert Einstein College of Medicine of Yeshiva University; Bronx,
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NY
FEATURES     Location/Qualifiers
              source
              1..21
                /organism="unknown"
                /mol_type="genomic DNA"

Query Match      0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 98;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY  208 GGGGGTGGGCTGGGGGGAGG 228
Db  1 GGGGGTGGGCTGGGTGAGAGG 21

RESULT 35
LOCUS       CQ830490               21 bp  DNA  linear  PAT 12-JUL-2004
DEFINITION   Sequence 2 from Patent WO2004055153.
ACCESSION    CQ830490
VERSION      CQ830490.1  GI:50250830
KEYWORDS     .
SOURCE       synthetic construct
              ORGANISM
                synthetic construct
                other sequences; artificial sequences.
REFERENCE    1
AUTHORS      Schluesener,H. and Wendel,H.P.
TITLE        Devices coated with substances that mediate the adhesion of
              biological material
JOURNAL      Patent: WO 2004055153-A 2 01-JUL-2004;
              Eberhard-Karls-Universitaet Tuebingen (DE)
FEATURES     Location/Qualifiers
              source
              1..21
                /organism="synthetic construct"
                /mol_type="unassigned DNA"
                /db_xref="taxon:32630"
                /note="Nukleotidsequenz"

Query Match      0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 98;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY  651 CGGCAGCAGCGCGCGCGCGG 671
Db  21 CGGCAGCGCGCGCGCGCGG 1

RESULT 36
LOCUS       CQ830491               21 bp  DNA  linear  PAT 12-JUL-2004
DEFINITION   Sequence 3 from Patent WO2004055153.
ACCESSION    CQ830491
VERSION      CQ830491.1  GI:50250831
KEYWORDS     .
SOURCE       synthetic construct
              ORGANISM
                synthetic construct
                other sequences; artificial sequences.
REFERENCE    1
AUTHORS      Schluesener,H. and Wendel,H.P.
TITLE        Devices coated with substances that mediate the adhesion of
              biological material
JOURNAL      Patent: WO 2004055153-A 3 01-JUL-2004;
              Eberhard-Karls-Universitaet Tuebingen (DE)
FEATURES     Location/Qualifiers
              source
              1..21
                /organism="synthetic construct"
                /mol_type="unassigned DNA"
                /db_xref="taxon:32630"
                /note="Nukleotidsequenz"

Query Match      0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 98;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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QY	650	CGCGCAGCAGCGCGCGCGCG 670	linear	PAT 12-JUL-2004
Db	1	CGCGCGCGCGCGCGCGCGCG 21		
RESULT 37				
LOCUS	CQ830492	21 bp DNA	linear	PAT 12-JUL-2004
DEFINITION	Sequence 4 from Patent WO2004055153.			
ACCESSION	CQ830492			
VERSION	CQ830492.1	GI:50250832		
KEYWORDS	synthetic construct			
SOURCE	synthetic construct			
ORGANISM	other sequences; artificial sequences.			
REFERENCE	1	Schluesener, H. and Wendel, H.P.		
AUTHORS	Devices coated with substances that mediate the adhesion of			
TITLE	biological material			
JOURNAL	Patent: WO 2004055153-A 4 01-JUL-2004;			
FEATURES	Eberhard-Karls-Universitaet Tuebingen (DE)			
source	Location/Qualifiers			
	1..21			
Query Match	0.6%; Score 17.8; DB 1; Length 21;			
Best Local Similarity	90.5%; Pred. No. 98;			
Matches	19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;			
QY	651	CGCGCAGCAGCGCGCGCGCG 671		
Db	1	CGCGCGCGCGCGCGCGCGCG 21		
RESULT 38				
LOCUS	AR067333	19 bp DNA	linear	PAT 29-SEP-1999
DEFINITION	Sequence 681 from patent US 5851760.			
ACCESSION	AR067333			
VERSION	AR067333.1	GI:5998555		
KEYWORDS	Unknown.			
SOURCE	Unknown.			
ORGANISM	Unclassified.			
REFERENCE	1 (bases 1 to 19)			
AUTHORS	Evans, G.A. and Smith, M.W.			
TITLE	Method for generation of sequence sampled maps of complex genomes			
JOURNAL	Patent: US 5851760-A 681 22-DEC-1998;			
FEATURES	Location/Qualifiers			
source	1..19			
	/organism="unknown"			
	/mol_type="unassigned DNA"			
Query Match	0.6%; Score 17.4; DB 1; Length 19;			
Best Local Similarity	94.7%; Pred. No. 1.1e-02;			
Matches	18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;			
QY	1555	ATCATCTTCTGCGCCCTGG 1573		
Db	1	ATCATCTTCTGCGCCCTGG 19		
RESULT 39				
LOCUS	BD142072/c	19 bp DNA	linear	PAT 18-SEP-2002
DEFINITION	A method for amplification of nucleic acids.			
ACCESSION	BD142072			
VERSION	BD142072.1	GI:23237017		
KEYWORDS	WO 0216639-A/72.			
SOURCE	synthetic construct			
ORGANISM	other sequences; artificial sequences.			
REFERENCE	1 (bases 1 to 19)			
AUTHORS	Sagawa, H., Uemori, T., Mukai, H., Yamamoto, J., Tomono, J.,			
TITLE	Kobayashi, E., Enoki, T., Asada, K. and Kato, I.			
JOURNAL	A method for amplification of nucleic acids			
FEATURES	Patent: WO 0216639-A 74 28-FEB-2002;			
source	TAKARA SHUZO CO LTD, HIROAKI SAGAWA, TAKASHI UEMORI, HIROYUKI MUKAI, JUNKO YAMAMOTO, PI			
	JUN TOMONO,			
	ASADA, IKUNOSHIN KATO			
	OS Artificial Sequence			
	PN WO 0216639-A/72			
	PD 28-FEB-2002			
	PF 21-AUG-2001 WO 2001JP007139			
	PR 23-AUG-2000 JP 00P 251981.19-SEP-2000 JP 00P 284419 PR			
	22-SEP-2000 JP 00P 288750.03-APR-2001 JP 01P 104191 PI			
	HIROAKI SAGAWA, TAKASHI UEMORI, HIROYUKI MUKAI, JUNKO YAMAMOTO, PI			
	JUN TOMONO,			
	ASADA, IKUNOSHIN KATO			
	OS Artificial Sequence			
	PN WO 0216639-A/72			
	PD 28-FEB-2002			
	PF 21-AUG-2001 WO 2001JP007139			
	PR 23-AUG-2000 JP 00P 251981.19-SEP-2000 JP 00P 284419 PR			
	22-SEP-2000 JP 00P 288750.03-APR-2001 JP 01P 104191 PI			
	HIROAKI SAGAWA, TAKASHI UEMORI, HIROYUKI MUKAI, JUNKO YAMAMOTO, PI			
	JUN TOMONO,			
	ASADA, IKUNOSHIN KATO			
	OS Artificial Sequence			
	PN WO 0216639-A/72			
	PD 28-FEB-2002			
	PF 21-AUG-2001 WO 2001JP007139			
	PR 23-AUG-2000 JP 00P 251981.19-SEP-2000 JP 00P 284419 PR			
	22-SEP-2000 JP 00P 288750.03-APR-2001 JP 01P 104191 PI			
	HIROAKI SAGAWA, TAKASHI UEMORI, HIROYUKI MUKAI, JUNKO YAMAMOTO, PI			
	JUN TOMONO,			
	ASADA, IKUNOSHIN KATO			
	OS Artificial Sequence			
	PN WO 0216639-A/72			
	PD 28-FEB-2002			
	PF 21-AUG-2001 WO 2001JP007139			
	PR 23-AUG-2000 JP 00P 251981.19-SEP-2000 JP 00P 284419 PR			
	22-SEP-2000 JP 00P 288750.03-APR-2001 JP 01P			

QY	650	CGCGCAGCAGCGCGCGCGCG 670	linear	PAT 12-JUL-2004
Db	1	CGCGCGCGCGCGCGCGCGCG 21		
RESULT 37				
LOCUS	CQ830492	21 bp DNA	linear	PAT 12-JUL-2004
DEFINITION	Sequence 4 from Patent WO2004055153.			
ACCESSION	CQ830492			
VERSION	CQ830492.1	GI:50250832		
KEYWORDS	synthetic construct			
SOURCE	synthetic construct			
ORGANISM	other sequences; artificial sequences.			
REFERENCE	1	Schluesener, H. and Wendel, H.P.		
AUTHORS	Devices coated with substances that mediate the adhesion of			
TITLE	biological material			
JOURNAL	Patent: WO 2004055153-A 4 01-JUL-2004;			
FEATURES	Eberhard-Karls-Universitaet Tuebingen (DE)			
source	Location/Qualifiers			
	1..21			
Query Match	0.6%; Score 17.8; DB 1; Length 21;			
Best Local Similarity	90.5%; Pred. No. 98;			
Matches	19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;			
QY	651	CGCGCAGCAGCGCGCGCGCG 671		
Db	1	CGCGCGCGCGCGCGCGCGCG 21		
RESULT 38				
LOCUS	AR067333	19 bp DNA	linear	PAT 29-SEP-1999
DEFINITION	Sequence 681 from patent US 5851760.			
ACCESSION	AR067333			
VERSION	AR067333.1	GI:5998555		
KEYWORDS	Unknown.			
SOURCE	Unknown.			
ORGANISM	Unclassified.			
REFERENCE	1 (bases 1 to 19)			
AUTHORS	Evans, G.A. and Smith, M.W.			
TITLE	Method for generation of sequence sampled maps of complex genomes			
JOURNAL	Patent: US 5851760-A 681 22-DEC-1998;			
FEATURES	Location/Qualifiers			
source	1..19			
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Query Match	0.6%; Score 17.4; DB 1; Length 19;			
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Matches	18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;			
QY	1555	ATCATCTTCTGCGCCCTGG 1573		
Db	1	ATCATCTTCTGCGCCCTGG 19		
RESULT 39				
LOCUS	BD142072/c	19 bp DNA	linear	PAT 18-SEP-2002
DEFINITION	A method for amplification of nucleic acids.			
ACCESSION	BD142072			
VERSION	BD142072.1	GI:23237017		
KEYWORDS	WO 0216639-A/72.			
SOURCE	synthetic construct			
ORGANISM	other sequences; artificial sequences.			
REFERENCE	1 (bases 1 to 19)			
AUTHORS	Sagawa, H., Uemori, T., Mukai, H., Yamamoto, J., Tomono, J.,			
TITLE	Kobayashi, E., Enoki, T., Asada, K. and Kato, I.			
JOURNAL	A method for amplification of nucleic acids			
FEATURES	Patent: WO 0216639-A 74 28-FEB-2002;			
source	TAKARA SHUZO CO LTD, HIROAKI SAGAWA, TAKASHI UEMORI, HIROYUKI MUKAI, JUNKO YAMAMOTO, PI			
	JUN TOMONO,			
	ASADA, IKUNOSHIN KATO			
	OS Artificial Sequence			
	PN WO 0216639-A/72			
	PD 28-FEB-2002			
	PF 21-AUG-2001 WO 2001JP007139			
	PR 23-AUG-2000 JP 00P 251981.19-SEP-2000 JP 00P 284419 PR			
	22-SEP-2000 JP 00P 288750.03-APR-2001 JP 01P 104191 PI			
	HIROAKI SAGAWA, TAKASHI UEMORI, HIROYUKI MUKAI, JUNKO YAMAMOTO, PI			
	JUN TOMONO,			
	ASADA, IKUNOSHIN KATO			
	OS Artificial Sequence			
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	HIROAKI SAGAWA, TAKASHI UEMORI, HIROYUKI MUKAI, JUNKO YAMAMOTO, PI			
	JUN TOMONO,			
	ASADA, IKUNOSHIN KATO			
	OS Artificial Sequence			
	PN WO 0216639-A/72			
	PD 28-FEB-2002			
	PF 21-AUG-2001 WO 2001JP007139			
	PR 23-AUG-2000 JP 00P 251981.19-SEP-2000 JP 00P 284419 PR			
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	HIROAKI SAGAWA, TAKASHI UEMORI, HIROYUKI MUKAI, JUNKO YAMAMOTO, PI			
	JUN TOMONO,			
	ASADA, IKUNOSHIN KATO			
	OS Artificial Sequence			
	PN WO 0216639-A/72			
	PD 28-FEB-2002			
	PF 21-AUG-2001 WO 2001JP007139			
	PR 23-AUG-2000 JP 00P 251981.19-SEP-2000 JP 00P 284419 PR			
	22-SEP-2000 JP 00P 288750.03-APR-2001 JP 01P			

QY	650	CGCGCAGCAGCGCGCGCGCG 670	linear	PAT 12-JUL-2004
Db	1	CGCGCGCGCGCGCGCGCGCG 21		
RESULT 37				
LOCUS	CQ830492	21 bp DNA	linear	PAT 12-JUL-2004
DEFINITION	Sequence 4 from Patent WO2004055153.			
ACCESSION	CQ830492			
VERSION	CQ830492.1	GI:50250832		
KEYWORDS	synthetic construct			
SOURCE	synthetic construct			
ORGANISM	other sequences; artificial sequences.			
REFERENCE	1	Schluesener, H. and Wendel, H.P.		
AUTHORS	Devices coated with substances that mediate the adhesion of			
TITLE	biological material			
JOURNAL	Patent: WO 2004055153-A 4 01-JUL-2004;			
FEATURES	Eberhard-Karls-Universitaet Tuebingen (DE)			
source	Location/Qualifiers			
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Query Match	0.6%; Score 17.8; DB 1; Length 21;			
Best Local Similarity	90.5%; Pred. No. 98;			
Matches	19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;			
QY	651	CGCGCAGCAGCGCGCGCGCG 671		
Db	1	CGCGCGCGCGCGCGCGCGCG 21		
RESULT 38				
LOCUS	AR067333	19 bp DNA	linear	PAT 29-SEP-1999
DEFINITION	Sequence 681 from patent US 5851760.			
ACCESSION	AR067333			
VERSION	AR067333.1	GI:5998555		
KEYWORDS	Unknown.			
SOURCE	Unknown.			
ORGANISM	Unclassified.			
REFERENCE	1 (bases 1 to 19)			
AUTHORS	Evans, G.A. and Smith, M.W.			
TITLE	Method for generation of sequence sampled maps of complex genomes			
JOURNAL	Patent: US 5851760-A 681 22-DEC-1998;			
FEATURES	Location/Qualifiers			
source	1..19			
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	/mol_type="unassigned DNA"			
Query Match	0.6%; Score 17.4; DB 1; Length 19;			
Best Local Similarity	94.7%; Pred. No. 1.1e-02;			
Matches	18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;			
QY	1555	ATCATCTTCTGCGCCCTGG 1573		
Db	1	ATCATCTTCTGCGCCCTGG 19		
RESULT 39				
LOCUS	BD142072/c	19 bp DNA	linear	PAT 18-SEP-2002
DEFINITION	A method for amplification of nucleic acids.			
ACCESSION	BD142072			
VERSION	BD142072.1	GI:23237017		
KEYWORDS	WO 0216639-A/72.			
SOURCE	synthetic construct			
ORGANISM	other sequences; artificial sequences.			
REFERENCE	1 (bases 1 to 19)			
AUTHORS	Sagawa, H., Uemori, T., Mukai, H., Yamamoto, J., Tomono, J.,			
TITLE	Kobayashi, E., Enoki, T., Asada, K. and Kato, I.			
JOURNAL	A method for amplification of nucleic acids			
FEATURES	Patent: WO 0216639-A 74 28-FEB-2002;			
source	TAKARA SHUZO CO LTD, HIROAKI SAGAWA, TAKASHI UEMORI, HIROYUKI MUKAI, JUNKO YAMAMOTO, PI			
	JUN TOMONO,			
	ASADA, IKUNOSHIN KATO			
	OS Artificial Sequence			
	PN WO 0216639-A/72			
	PD 28-FEB-2002			
	PF 21-AUG-2001 WO 2001JP007139			
	PR 23-AUG-2000 JP 00P 251981.19-SEP-2000 JP 00P 284419 PR			
	22-SEP-2000 JP 00P 288750.03-APR-2001 JP 01P 104191 PI			
	HIROAKI SAGAWA, TAKASHI UEMORI, HIROYUKI MUKAI, JUNKO YAMAMOTO, PI			
	JUN TOMONO,			
	ASADA, IKUNOSHIN KATO			
	OS Artificial Sequence			
	PN WO 0216639-A/72			
	PD 28-FEB-2002			
	PF 21-AUG-2001 WO 2001JP007139			
	PR 23-AUG-2000 JP 00P 251981.19-SEP-2000 JP 00P 284419 PR			
	22-SEP-2000 JP 00P 288750.03-APR-2001 JP 01P 104191 PI			
	HIROAKI SAGAWA, TAKASHI UEMORI, HIROYUKI MUKAI, JUNKO YAMAMOTO, PI			
	JUN TOMONO,			
	ASADA, IKUNOSHIN KATO			
	OS Artificial Sequence			
	PN WO 0216639-A/72			
	PD 28-FEB-2002			
	PF 21-AUG-2001 WO 2001JP007139			
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	HIROAKI SAGAWA, TAKASHI UEMORI, HIROYUKI MUKAI, JUNKO YAMAMOTO, PI			
	JUN TOMONO,			
	ASADA, IKUNOSHIN KATO			
	OS Artificial Sequence			
	PN WO 0216639-A/72			
	PD 28-FEB-2002			
	PF 21-AUG-2001 WO 2001JP007139			
	PR 23-AUG-2000 JP 00P 251981.19-SEP-2000 JP 00P 284419 PR			
	22-SEP-2000 JP 00P 288750.03-APR-2001 JP 01P			

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CC      Designed oligonucleotide primer to amplify a portion of iNOS-
CC      encoding
CC      sequence from mouse
CC      Key      Location/Qualifiers
FT      source      1..19
FT      Location/Qualifiers
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/mol_type="genomic DNA"
/db_xref="taxon:32630"

Query Match      0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 1.1e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1579 CTCATCTTTGCCACCATGA 1597
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Db 19 CTCATCTTTGCCACCAAGA 1

RESULT 41
BD185965/c
LOCUS      19 bp      DNA      linear      PAT 17-JUN-2003
DEFINITION      A stabilization method and a preservation method for a reagent for
nucleic acid amplification or detection reaction.
ACCESSION      BD185965
VERSION      BD185965.1 GI:31878165
KEYWORDS      WO 02101042-A/161.
SOURCE      synthetic construct
ORGANISM      other sequences; artificial sequences.
REFERENCE      1 (bases 1 to 19)
AUTHORS      Sagawa,H., Uemori,T., Mukai,H., Yamamoto,J., Tomono,J.,
Kobayashi,E., Enoki,T., Asada,K. and Kato,I.
TITLE      A stabilization method and a preservation method for a reagent for
nucleic acid amplification or detection reaction
JOURNAL      Patent: WO 02101042-A 161 19-DEC-2003;
TAKARA BIO INC,HIROAKI SAGAWA,TAKASHI UEMORI,HIROYUKI MUKAI,JUNKO
YAMAMOTO, JUN TOMONO,EIJI KOBAYASHI,TATSUJI ENOKI,KIYOZO
ASADA,IKUNOSHIN KATO
OS      Artificial Sequence
PN      WO 02101042-A/161
PD      19-DEC-2002
PF      12-JUN-2002 WO 2002JP005832
PR      12-JUN-2001 JP 01P 177737,20-AUG-2001 JP 01P 249689 PI
HIROAKI SAGAWA,TAKASHI UEMORI,HIROYUKI MUKAI,JUNKO YAMAMOTO, PI
JUN TOMONO,
PI      EIJI KOBAYASHI,TATSUJI ENOKI,KIYOZO ASADA,IKUNOSHIN KATO PC
C12N15/09,C12Q1/68
CC      Designed oligonucleotide primer to amplify a portion of iNOS-
CC      encoding
CC      sequence from mouse
CC      Key      Location/Qualifiers
FT      source      1..19
FT      Location/Qualifiers
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/mol_type="genomic DNA"
/db_xref="taxon:32630"

Query Match      0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 1.1e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1579 CTCATCTTTGCCACCATGA 1597
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Db 19 CTCATCTTTGCCACCAAGA 1

RESULT 42
AX962803
LOCUS      20 bp      DNA      linear      PAT 14-JAN-2004
DEFINITION      Sequence 59 from Patent WO03104458.
ACCESSION      AX962803
VERSION      AX962803.1 GI:40881916
KEYWORDS      synthetic construct
SOURCE      other sequences; artificial sequences.
ORGANISM      Baker,B.F., Freier,S.M. and Dobie,K.W.
REFERENCE      1
AUTHORS      Antisense modulation of il-1 receptor-associated kinase-1
TITLE      expression
JOURNAL      Patent: WO 03104458-A 59 18-DEC-2003;
ISIS PHARMACEUTICALS, INC. (US)
FEATURES
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/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="Antisense Oligonucleotide"

Query Match      0.6%; Score 17; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 633 CGGCGGTGCAGGCAGCA 649
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Db 4 CGGCGGTGCAGGCAGCA 20

RESULT 43
AX962870/c
LOCUS      20 bp      DNA      linear      PAT 14-JAN-2004
DEFINITION      Sequence 126 from Patent WO03104458.
ACCESSION      AX962870
VERSION      AX962870.1 GI:40881993
KEYWORDS      Homo sapiens (human)
SOURCE      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
ORGANISM      Baker,B.F., Freier,S.M. and Dobie,K.W.
REFERENCE      1
AUTHORS      Antisense modulation of il-1 receptor-associated kinase-1
TITLE      expression
JOURNAL      Patent: WO 03104458-A 126 18-DEC-2003;
ISIS PHARMACEUTICALS, INC. (US)
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Query Match      0.6%; Score 17; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy* 633 CGGCGGTGCAGGCAGCA 649
|||||
Db 17 CGGCGGTGCAGGCAGCA 1

RESULT 44
AX477006/c
LOCUS      21 bp      DNA      linear      PAT 12-AUG-2002
DEFINITION      Sequence 97 from Patent WO0220848.
ACCESSION      AX477006
VERSION      AX477006.1 GI:22216259
KEYWORDS      synthetic construct
SOURCE      other sequences; artificial sequences.
ORGANISM

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REFERENCE 1  
AUTHORS Bodnar,J.S., Castellani,L.W., Chatterjee,A., de Jong,P.,  
Lusis,A.J., Ohmen,J., Ross,D., Tafuri,S. and Wu,C.  
TITLE Gene and sequence variation associated with cancer  
JOURNAL Patent: WO 0220848-A 97 14-MAR-2002;  
THE REGENTS OF THE UNIVERSITY OF CALIFORNIA (US)  
FEATURES Location/Qualifiers  
source  
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/mol\_type="unassigned DNA"  
/db\_xref="taxon:32630"  
/note="Synthetic Primer"

Query Match 0.6%; Score 17; DB 1; Length 21;  
Best Local Similarity 100.0%; Pred. No. 1.1e+02;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 65 TGCTCAACCTTCTGAG 81  
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Db 20 TGCTCAACCTTCTGAG 4

RESULT 45  
LOCUS AX526382/c 21 bp DNA linear PAT 21-NOV-2002  
DEFINITION Sequence 97 from Patent WO0220847.  
ACCESSION AX526382  
VERSION AX526382.1 GI:25171189  
KEYWORDS synthetic construct  
SOURCE synthetic construct  
ORGANISM other sequences; artificial sequences.

REFERENCE 1  
AUTHORS Bodnar,J.S., Castellani,L.W., Chatterjee,A., de Jong,P.,  
Lusis,A.J., Ohmen,J., Ross,D., Tafuri,S. and Wu,C.  
TITLE Gene and sequence variation associated with lipid disorder  
JOURNAL Patent: WO 0220847-A 97 14-MAR-2002;  
THE REGENTS OF THE UNIVERSITY OF CALIFORNIA (US)  
FEATURES Location/Qualifiers  
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Query Match 0.6%; Score 17; DB 1; Length 21;  
Best Local Similarity 100.0%; Pred. No. 1.1e+02;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 65 TGCTCAACCTTCTGAG 81  
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Db 20 TGCTCAACCTTCTGAG 4

RESULT 46  
LOCUS AR137709/c 20 bp DNA linear PAT 16-JUN-2001  
DEFINITION Sequence 2 from patent US 6197554.  
ACCESSION AR137709  
VERSION AR137709.1 GI:14479218  
KEYWORDS Unknown.  
SOURCE Unclassified.  
ORGANISM Lin,S.-L., Chuong,C.-M. and Ying,S.-Y.  
REFERENCE 1 (bases 1 to 20)  
AUTHORS Lin,S.-L., Chuong,C.-M. and Ying,S.-Y.  
TITLE Method for generating full-length cDNA library from single cells  
JOURNAL Patent: US 6197554-A 2 06-MAR-2001;  
FEATURES Location/Qualifiers  
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/mol\_type="unassigned DNA"

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GCGGGGTGGGTGGGGGGG 225  
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Db 20 GCGGGGTGGGGGGGGGGG 1

RESULT 47  
LOCUS AR182883/c 20 bp DNA linear PAT 20-APR-2002  
DEFINITION Sequence 55 from patent US 6339068.  
ACCESSION AR182883  
VERSION AR182883.1 GI:20226090  
KEYWORDS Unknown.  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 20)  
AUTHORS Krieg,A.M., Davis,H.L., Wu,T. and Schorr,J.  
TITLE Vectors and methods for immunization or therapeutic protocols  
JOURNAL Patent: US 6339068-A 55 15-JAN-2002;  
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Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GCGGGGTGGGTGGGGGGG 225  
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Db 20 GCGGGGTGGGGGGGGGGG 1

RESULT 48  
LOCUS AR182885 20 bp DNA linear PAT 20-APR-2002  
DEFINITION Sequence 57 from patent US 6339068.  
ACCESSION AR182885  
VERSION AR182885.1 GI:20226092  
KEYWORDS Unknown.  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 20)  
AUTHORS Krieg,A.M., Davis,H.L., Wu,T. and Schorr,J.  
TITLE Vectors and methods for immunization or therapeutic protocols  
JOURNAL Patent: US 6339068-A 57 15-JAN-2002;  
FEATURES Location/Qualifiers  
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Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGGGGGGGGG 671  
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Db 1 GCGGGGTGGGGGGGGGGG 20

RESULT 49  
LOCUS AR607446/c 20 bp DNA linear PAT 15-DEC-2004  
DEFINITION Sequence 55 from patent US 6821957.  
ACCESSION AR607446  
VERSION AR607446.1 GI:56659863  
KEYWORDS Unknown.  
SOURCE Unknown.

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ORGANISM Unknown.
Unclassified.
1 (bases 1 to 20)
REFERENCE
AUTHORS Krieg,A.M., Davis,H.L., Wu,T. and Joachim,S.
TITLE Vectors and methods for immunization or therapeutic protocols
JOURNAL Patent: US 6821957-A 55 23-NOV-2004;
University of Iowa Research Foundation; Iowa City, IA
FEATURES
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/organism="unknown"
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Query Match
Best Local Similarity 0.6%; Score 16.8; DB 1; Length 20;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGGGG 225
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Db 20 GGGGGGGGGGGGGGGGGG 1

RESULT 52
AX045788/c
LOCUS AX045788 20 bp DNA linear PAT 24-NOV-2000
DEFINITION Sequence 18 from Patent WO067023.
ACCESSION AX045788
VERSION AX045788.1 GI:11344155
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE
1 Noll,B.O., Schetter,C. and Krieg,A.M.
AUTHORS Screening for immunostimulatory dna functional modifiers
TITLE Patent: WO 0067023-A 18 09-NOV-2000;
JOURNAL CPG Immunopharmaceuticals GmbH (DE) ; UNIVERSITY OF IOWA RESEARCH
FOUNDATION (US)
FEATURES
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Query Match
Best Local Similarity 0.6%; Score 16.8; DB 1; Length 20;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGGGG 225
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Db 20 GGGGGGGGGGGGGGGGGG 1

RESULT 53
AX045791/c
LOCUS AX045791 20 bp DNA linear PAT 24-NOV-2000
DEFINITION Sequence 21 from Patent WO067023.
ACCESSION AX045791
VERSION AX045791.1 GI:11344158
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE
1 Noll,B.O., Schetter,C. and Krieg,A.M.
AUTHORS Screening for immunostimulatory dna functional modifiers
TITLE Patent: WO 0067023-A 21 09-NOV-2000;
JOURNAL CPG Immunopharmaceuticals GmbH (DE) ; UNIVERSITY OF IOWA RESEARCH
FOUNDATION (US)
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/organism="synthetic construct"
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misc_feature 1
/note="phosphorothioate backbone"
/note="modified with digoxigenin"

ORGANISM Unknown.
Unclassified.
1 (bases 1 to 20)
REFERENCE
AUTHORS Krieg,A.M., Davis,H.L., Wu,T. and Joachim,S.
TITLE Vectors and methods for immunization or therapeutic protocols
JOURNAL Patent: US 6821957-A 55 23-NOV-2004;
University of Iowa Research Foundation; Iowa City, IA
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/organism="unknown"
/mol_type="genomic DNA"

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Best Local Similarity 0.6%; Score 16.8; DB 1; Length 20;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGCGCGG 671
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Db 1 GCGCGCGCGCGCGCGCGG 20

RESULT 51
AX045778/c
LOCUS AX045778 20 bp DNA linear PAT 24-NOV-2000
DEFINITION Sequence 8 from Patent WO067023.
ACCESSION AX045778
VERSION AX045778.1 GI:11344145
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE
1 Noll,B.O., Schetter,C. and Krieg,A.M.
AUTHORS Screening for immunostimulatory dna functional modifiers
TITLE Patent: WO 0067023-A 8 09-NOV-2000;
JOURNAL CPG Immunopharmaceuticals GmbH (DE) ; UNIVERSITY OF IOWA RESEARCH
FOUNDATION (US)
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Location/Qualifiers
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/mol_type="unassigned DNA"
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misc_feature 1..20
misc_feature 1
/note="phosphorothioate backbone"
/note="modified with digoxigenin"
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QY 206 GGGGGGTGGGTGGGGGG 225
Db 20 GGGGGGGGGGGGGGGGGG 1

RESULT 54
AX104051
LOCUS AX104051 20 bp DNA linear PAT 30-APR-2001
DEFINITION Sequence 243 from Patent WO0122972.
ACCESSION AX104051
VERSION AX104051.1 GI:13920248
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE
1 Krieg,A.M., Schetter,C. and Vollmer,J.C.
AUTHORS Immunostimulatory nucleic acids
TITLE Patent: WO 0122972-A 243 05-APR-2001;
JOURNAL UNIVERSITY OF IOWA RESEARCH FOUNDATION (US) ; Coley Pharmaceutical
GmbH (DE)
FEATURES
source
Location/Qualifiers
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/mol_type="unassigned DNA"
/db_xref="taxon:32630"

Query Match 0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGCGCGG 671
Db 1 GCGCGCGCGCGCGCGCGCG 20

RESULT 55
AX104065/c
LOCUS AX104065 20 bp DNA linear PAT 30-APR-2001
DEFINITION Sequence 257 from Patent WO0122972.
ACCESSION AX104065
VERSION AX104065.1 GI:13920262
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE
1 Krieg,A.M., Schetter,C. and Vollmer,J.C.
AUTHORS Immunostimulatory nucleic acids
TITLE Patent: WO 0122972-A 257 05-APR-2001;
JOURNAL UNIVERSITY OF IOWA RESEARCH FOUNDATION (US) ; Coley Pharmaceutical
GmbH (DE)
FEATURES
source
Location/Qualifiers
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/mol_type="unassigned DNA"
/db_xref="taxon:32630"

Query Match 0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGTGGGGGG 225
Db 20 GGGGGGGGGGGGGGGGGG 1

RESULT 56
AX104338/c
LOCUS AX104338 20 bp DNA linear PAT 30-APR-2001
DEFINITION Sequence 530 from Patent WO0122972.
ACCESSION AX104338
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VERSION AX104338.1 GI:13920535
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE
1 Krieg,A.M., Schetter,C. and Vollmer,J.C.
AUTHORS Immunostimulatory nucleic acids
TITLE Patent: WO 0122972-A 530 05-APR-2001;
JOURNAL UNIVERSITY OF IOWA RESEARCH FOUNDATION (US) ; Coley Pharmaceutical
GmbH (DE)
FEATURES
source
Location/Qualifiers
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/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"

Query Match 0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGTGGGGGG 225
Db 20 GGGGGGGGGGGGGGGGGG 1

RESULT 57
AX104339
LOCUS AX104339 20 bp DNA linear PAT 30-APR-2001
DEFINITION Sequence 531 from Patent WO0122972.
ACCESSION AX104339
VERSION AX104339.1 GI:13920536
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE
1 Krieg,A.M., Schetter,C. and Vollmer,J.C.
AUTHORS Immunostimulatory nucleic acids
TITLE Patent: WO 0122972-A 531 05-APR-2001;
JOURNAL UNIVERSITY OF IOWA RESEARCH FOUNDATION (US) ; Coley Pharmaceutical
GmbH (DE)
FEATURES
source
Location/Qualifiers
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/mol_type="unassigned DNA"
/db_xref="taxon:32630"

Query Match 0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGTGGGGGG 225
Db 1 GGGGGGGGGGGGGGGGGG 20

RESULT 58
AX104619/c
LOCUS AX104619 20 bp DNA linear PAT 30-APR-2001
DEFINITION Sequence 811 from Patent WO0122972.
ACCESSION AX104619
VERSION AX104619.1 GI:13920816
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE
1 Krieg,A.M., Schetter,C. and Vollmer,J.C.
AUTHORS Immunostimulatory nucleic acids
TITLE Patent: WO 0122972-A 811 05-APR-2001;
JOURNAL UNIVERSITY OF IOWA RESEARCH FOUNDATION (US) ; Coley Pharmaceutical
GmbH (DE)
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      /mol_type="unassigned DNA"
      /db_xref="taxon:32630"

Query Match
  Best Local Similarity 0.6%; Score 16.8; DB 1; Length 20;
  Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGGGG 225
Db 1 GGGGGGGGGGGGGGGGGGGG 20

RESULT 59
AX104795
LOCUS AX104795 20 bp DNA linear PAT 30-APR-2001
DEFINITION Sequence 987 from Patent WO0122972.
ACCESSION AX104795
VERSION AX104795.1 GI:13920992
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE
  1
  AUTHORS Krieg,A.M., Schetter,C. and Vollmer,J.C.
  TITLE Immunostimulatory nucleic acids
  JOURNAL Patent: WO 0122972-A 987 05-APR-2001;
  UNIVERSITY OF IOWA RESEARCH FOUNDATION (US) ; Coley Pharmaceutical
  GmbH (DE)
FEATURES
  source
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      /mol_type="unassigned DNA"
      /db_xref="taxon:32630"

Query Match
  Best Local Similarity 0.6%; Score 16.8; DB 1; Length 20;
  Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGGGG 225
Db 1 GGGGGGGGGGGGGGGGGGGG 20

RESULT 60
AX105235
LOCUS AX105235 20 bp DNA linear PAT 30-APR-2001
DEFINITION Sequence 134 from Patent WO0122990.
ACCESSION AX105235
VERSION AX105235.1 GI:13921385
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE
  1
  AUTHORS Hartmann,G.D., Bratzler,R.L. and Krieg,A.U.
  TITLE Methods related to immunostimulatory nucleic acid-induced
  interferon
  JOURNAL Patent: WO 0122990-A 134 05-APR-2001;
  Coley Pharmaceutical Group, Inc. (US) ; UNIVERSITY OF IOWA RESEARCH
  FOUNDATION (US)
FEATURES
  source
    Location/Qualifiers
      1..20
      /organism="synthetic construct"
      /mol_type="unassigned DNA"
      /db_xref="taxon:32630"
      /note="Synthetic Oligonucleotide"

Query Match
  Best Local Similarity 0.6%; Score 16.8; DB 1; Length 20;
  Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGGGG 225
Db 1 GGGGGGGGGGGGGGGGGGGG 20

RESULT 61
AX355140/c
LOCUS AX355140 20 bp DNA linear PAT 06-FEB-2002
DEFINITION Sequence 168 from Patent WO0197843.
ACCESSION AX355140
VERSION AX355140.1 GI:18619807
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE
  1
  AUTHORS Weiner,G. and Hartmann,G.
  TITLE Methods for enhancing antibody-induced cell lysis and treating
  cancer
  JOURNAL Patent: WO 0197843-A 168 27-DEC-2001;
  UNIVERSITY OF IOWA RESEARCH FOUNDATION (US)
FEATURES
  source
    Location/Qualifiers
      1..20
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      /db_xref="taxon:32630"
      /note="Synthetic oligonucleotide
      phosphorothioate backbone"

Query Match
  Best Local Similarity 0.6%; Score 16.8; DB 1; Length 20;
  Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGGGG 225
Db 20 GGGGGGGGGGGGGGGGGGGG 1

RESULT 62
AX355141/c
LOCUS AX355141 20 bp DNA linear PAT 06-FEB-2002
DEFINITION Sequence 169 from Patent WO0197843.
ACCESSION AX355141
VERSION AX355141.1 GI:18619808
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE
  1
  AUTHORS Weiner,G. and Hartmann,G.
  TITLE Methods for enhancing antibody-induced cell lysis and treating
  cancer
  JOURNAL Patent: WO 0197843-A 169 27-DEC-2001;
  UNIVERSITY OF IOWA RESEARCH FOUNDATION (US)
FEATURES
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      /mol_type="unassigned DNA"
      /db_xref="taxon:32630"
      /note="Synthetic oligonucleotide
      chimeric phosphorothioate/phosphodiester backbone with
      phosphorothioate at 5' and 3' ends"

Query Match
  Best Local Similarity 0.6%; Score 16.8; DB 1; Length 20;
  Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGGGG 225
Db 20 GGGGGGGGGGGGGGGGGGGG 1

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RESULT 63
AX355382          AX355382          20 bp      DNA      linear      PAT 06-FEB-2002
DEFINITION       Sequence 410 from Patent WO0197843.
ACCESSION        AX355382
VERSION          AX355382.1  GI:18620050
KEYWORDS         synthetic construct
SOURCE           synthetic construct
ORGANISM         other sequences; artificial sequences.
REFERENCE        1
AUTHORS          Weiner,G. and Hartmann,G.
TITLE            Methods for enhancing antibody-induced cell lysis and treating
                cancer
JOURNAL          Patent: WO 0197843-A 410 27-DEC-2001;
                UNIVERSITY OF IOWA RESEARCH FOUNDATION (US)
FEATURES         Location/Qualifiers
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                /mol_type="unassigned DNA"
                /db_xref="taxon:32630"
                /note="Synthetic oligonucleotide
                phosphodiester backbone"
                Query Match          0.6%;  Score 16.8;  DB 1;  Length 20;
                Best Local Similarity 90.0%;  Pred. No. 1.2e+02;
                Matches 18;  Conservative 0;  Mismatches 2;  Indels 0;  Gaps 0;

QY      652  GGCAGCAGCGCGCGCGCGG 671
Db      1  GCGCGCGCGCGCGCGCGG 20
                ||||| ||||| ||||| |||||
                Query Match          0.6%;  Score 16.8;  DB 1;  Length 20;
                Best Local Similarity 90.0%;  Pred. No. 1.2e+02;
                Matches 18;  Conservative 0;  Mismatches 2;  Indels 0;  Gaps 0;

RESULT 64
AX355401          AX355401          20 bp      DNA      linear      PAT 06-FEB-2002
DEFINITION       Sequence 429 from Patent WO0197843.
ACCESSION        AX355401
VERSION          AX355401.1  GI:18620069
KEYWORDS         synthetic construct
SOURCE           synthetic construct
ORGANISM         other sequences; artificial sequences.
REFERENCE        1
AUTHORS          Weiner,G. and Hartmann,G.
TITLE            Methods for enhancing antibody-induced cell lysis and treating
                cancer
JOURNAL          Patent: WO 0197843-A 429 27-DEC-2001;
                UNIVERSITY OF IOWA RESEARCH FOUNDATION (US)
FEATURES         Location/Qualifiers
                source
                1..20
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                /mol_type="unassigned DNA"
                /db_xref="taxon:32630"
                /note="Synthetic oligonucleotide
                chimeric phosphorothioate/phosphodiester backbone with
                phosphorothioate at 5' and 3' ends"
                Query Match          0.6%;  Score 16.8;  DB 1;  Length 20;
                Best Local Similarity 90.0%;  Pred. No. 1.2e+02;
                Matches 18;  Conservative 0;  Mismatches 2;  Indels 0;  Gaps 0;

QY      206  GCGGGGGTGGGTGGGGGGG 225
Db      1  GCGGGGGGGGGGGGGGGG 20
                ||||| ||||| ||||| |||||
                Query Match          0.6%;  Score 16.8;  DB 1;  Length 20;
                Best Local Similarity 90.0%;  Pred. No. 1.2e+02;
                Matches 18;  Conservative 0;  Mismatches 2;  Indels 0;  Gaps 0;

RESULT 65
AX355402          AX355402          20 bp      DNA      linear      PAT 06-FEB-2002
DEFINITION       Sequence 430 from Patent WO0197843.
ACCESSION        AX355402
VERSION          AX355402.1  GI:18620070
KEYWORDS         synthetic construct
SOURCE           synthetic construct
ORGANISM         other sequences; artificial sequences.
REFERENCE        1
AUTHORS          Weiner,G. and Hartmann,G.
TITLE            Methods for enhancing antibody-induced cell lysis and treating
                cancer
JOURNAL          Patent: WO 0197843-A 430 27-DEC-2001;
                UNIVERSITY OF IOWA RESEARCH FOUNDATION (US)
FEATURES         Location/Qualifiers
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                /note="Synthetic oligonucleotide
                phosphodiester backbone"
                Query Match          0.6%;  Score 16.8;  DB 1;  Length 20;
                Best Local Similarity 90.0%;  Pred. No. 1.2e+02;
                Matches 18;  Conservative 0;  Mismatches 2;  Indels 0;  Gaps 0;

QY      206  GCGGGGGTGGGTGGGGGGG 225
Db      1  GCGGGGGGGGGGGGGGGG 20
                ||||| ||||| ||||| |||||
                Query Match          0.6%;  Score 16.8;  DB 1;  Length 20;
                Best Local Similarity 90.0%;  Pred. No. 1.2e+02;
                Matches 18;  Conservative 0;  Mismatches 2;  Indels 0;  Gaps 0;

RESULT 66
AX477342/c        AX477342          20 bp      RNA      linear      PAT 12-AUG-2002
LOCUS            Sequence 8 from Patent WO0246468.
DEFINITION       AX477342
ACCESSION        AX477342
VERSION          AX477342.1  GI:22216592
KEYWORDS         synthetic construct
SOURCE           synthetic construct
ORGANISM         other sequences; artificial sequences.
REFERENCE        1
AUTHORS          Hayashizaki,Y. and Ono,T.
TITLE            Method for maldi-tof-ms analysis and/or sequencing of
                oligonucleotides
JOURNAL          Patent: WO 0246468-A 8 13-JUN-2002;
                Riken (JP)
FEATURES         Location/Qualifiers
                source
                1..20
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                /db_xref="taxon:32630"
                /note="Synthetic"
                misc_feature          1..20
                /note="each CTP has an Fluoro substituent at the 2'
                position of the suga"
                misc_feature          20
                /note="a T base is added onto the 3' end"
                Query Match          0.6%;  Score 16.8;  DB 1;  Length 20;
                Best Local Similarity 90.0%;  Pred. No. 1.2e+02;
                Matches 18;  Conservative 0;  Mismatches 2;  Indels 0;  Gaps 0;

QY      206  GCGGGGGTGGGTGGGGGGG 225
Db      1  GCGGGGGGGGGGGGGGGG 20
                ||||| ||||| ||||| |||||
                Query Match          0.6%;  Score 16.8;  DB 1;  Length 20;
                Best Local Similarity 90.0%;  Pred. No. 1.2e+02;
                Matches 18;  Conservative 0;  Mismatches 2;  Indels 0;  Gaps 0;

RESULT 67
AX547104          AX547104          20 bp      DNA      linear      PAT 01-MAR-2003
LOCUS            Sequence 243 from Patent WO02053141.
DEFINITION       AX547104
ACCESSION        AX547104
VERSION          AX547104.1  GI:25812248
KEYWORDS         synthetic construct
SOURCE           synthetic construct
ORGANISM         other sequences; artificial sequences.
REFERENCE        1
AUTHORS          Weiner,G. and Hartmann,G.
TITLE            Methods for enhancing antibody-induced cell lysis and treating
                cancer
JOURNAL          Patent: WO 0197843-A 430 27-DEC-2001;
                UNIVERSITY OF IOWA RESEARCH FOUNDATION (US)
FEATURES         Location/Qualifiers
                source
                1..20
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                /db_xref="taxon:32630"
                /note="Synthetic oligonucleotide
                phosphodiester backbone"
                Query Match          0.6%;  Score 16.8;  DB 1;  Length 20;
                Best Local Similarity 90.0%;  Pred. No. 1.2e+02;
                Matches 18;  Conservative 0;  Mismatches 2;  Indels 0;  Gaps 0;

QY      206  GCGGGGGTGGGTGGGGGGG 225
Db      1  GCGGGGGGGGGGGGGGGG 20
                ||||| ||||| ||||| |||||
                Query Match          0.6%;  Score 16.8;  DB 1;  Length 20;
                Best Local Similarity 90.0%;  Pred. No. 1.2e+02;
                Matches 18;  Conservative 0;  Mismatches 2;  Indels 0;  Gaps 0;
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other sequences; artificial sequences.
1
REFERENCE
  AUTHORS   Bratzler,R.L.
  TITLE     Inhibition of angiogenesis by nucleic acids
  JOURNAL   Patent: WO 02053141-A 243 11-JUL-2002;
            Coley Pharmaceutical Group, Inc. (US)
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Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCGCGGGGGGGGGG 671
Db 1 GCGGGCGGGGGGGGGGGG 20

RESULT 68
AX547118/c
LOCUS AX547118 20 bp DNA linear PAT 01-MAR-2003
DEFINITION Sequence 257 from Patent WO02053141.
ACCESSION AX547118
VERSION AX547118.1 GI:25812262
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
1
REFERENCE
  AUTHORS   Bratzler,R.L.
  TITLE     Inhibition of angiogenesis by nucleic acids
  JOURNAL   Patent: WO 02053141-A 257 11-JUL-2002;
            Coley Pharmaceutical Group, Inc. (US)
FEATURES
  source
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      /db_xref="taxon:32630"
      /note="Synthetic Sequence"

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GCGGGGGTGGGGTGGGGGGG 225
Db 20 GCGGGGGGGGGGGGGGGGG 1

RESULT 69
AX547391/c
LOCUS AX547391 20 bp DNA linear PAT 01-MAR-2003
DEFINITION Sequence 530 from Patent WO02053141.
ACCESSION AX547391
VERSION AX547391.1 GI:25812535
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
1
REFERENCE
  AUTHORS   Bratzler,R.L.
  TITLE     Inhibition of angiogenesis by nucleic acids
  JOURNAL   Patent: WO 02053141-A 530 11-JUL-2002;
            Coley Pharmaceutical Group, Inc. (US)
FEATURES
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      /db_xref="taxon:32630"

other sequences; artificial sequences.
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REFERENCE
  AUTHORS   Bratzler,R.L.
  TITLE     Inhibition of angiogenesis by nucleic acids
  JOURNAL   Patent: WO 02053141-A 243 11-JUL-2002;
            Coley Pharmaceutical Group, Inc. (US)
FEATURES
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      /mol_type="unassigned DNA"
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      /note="Synthetic Sequence"

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GCGGGGGTGGGGTGGGGGGG 225
Db 20 GCGGGGGGGGGGGGGGGGG 1

RESULT 70
AX547392
LOCUS AX547392 20 bp DNA linear PAT 01-MAR-2003
DEFINITION Sequence 531 from Patent WO02053141.
ACCESSION AX547392
VERSION AX547392.1 GI:25812536
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
1
REFERENCE
  AUTHORS   Bratzler,R.L.
  TITLE     Inhibition of angiogenesis by nucleic acids
  JOURNAL   Patent: WO 02053141-A 531 11-JUL-2002;
            Coley Pharmaceutical Group, Inc. (US)
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      /mol_type="unassigned DNA"
      /db_xref="taxon:32630"
      /note="Synthetic Sequence"

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GCGGGGGTGGGGTGGGGGGG 225
Db 20 GCGGGGGGGGGGGGGGGGG 1

RESULT 71
AX547672/c
LOCUS AX547672 20 bp DNA linear PAT 01-MAR-2003
DEFINITION Sequence 811 from Patent WO02053141.
ACCESSION AX547672
VERSION AX547672.1 GI:25812816
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
1
REFERENCE
  AUTHORS   Bratzler,R.L.
  TITLE     Inhibition of angiogenesis by nucleic acids
  JOURNAL   Patent: WO 02053141-A 811 11-JUL-2002;
            Coley Pharmaceutical Group, Inc. (US)
FEATURES
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      /mol_type="unassigned DNA"
      /db_xref="taxon:32630"
      /note="Synthetic Sequence"

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GCGGGGGTGGGGTGGGGGGG 225
Db 1 GCGGGGGGGGGGGGGGGGG 20

RESULT 71
AX547672/c
LOCUS AX547672 20 bp DNA linear PAT 01-MAR-2003
DEFINITION Sequence 811 from Patent WO02053141.
ACCESSION AX547672
VERSION AX547672.1 GI:25812816
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
1
REFERENCE
  AUTHORS   Bratzler,R.L.
  TITLE     Inhibition of angiogenesis by nucleic acids
  JOURNAL   Patent: WO 02053141-A 811 11-JUL-2002;
            Coley Pharmaceutical Group, Inc. (US)
FEATURES
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      /mol_type="unassigned DNA"
      /db_xref="taxon:32630"
      /note="Synthetic Sequence"

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GCGGGGGTGGGGTGGGGGGG 225
Db 20 GCGGGGGGGGGGGGGGGGG 1
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RESULT 72  
AX547848  
LOCUS AX547848 20 bp DNA linear PAT 01-MAR-2003  
DEFINITION Sequence 987 from Patent WO02053141.  
ACCESSION AX547848  
VERSION AX547848.1 GI:25812992  
KEYWORDS synthetic construct  
SOURCE synthetic construct  
ORGANISM other sequences; artificial sequences.  
REFERENCE 1  
AUTHORS Bratzler, R.L.  
TITLE Inhibition of angiogenesis by nucleic acids  
JOURNAL Patent: WO 02053141-A 987 11-JUL-2002;  
Coley Pharmaceutical Group, Inc. (US)  
FEATURES  
source  
1. .20  
/organism="synthetic construct"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:32630"  
/note="Synthetic Sequence"  
Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 206 GGGGGGGTGGGTGGGGGGG 225  
||||| ||||| ||||| |||||  
Db 1 GGGGGGGGGGGGGGGGGGGG 20  
Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
LOCUS AX664309/c 20 bp DNA linear PAT 22-MAR-2003  
DEFINITION Sequence 7 from Patent WO0246398.  
ACCESSION AX664309  
VERSION AX664309.1 GI:29164239  
KEYWORDS synthetic construct  
SOURCE synthetic construct  
ORGANISM other sequences; artificial sequences.  
REFERENCE 1  
AUTHORS Willson, R.C. and Murphy, J.C.  
TITLE Nucleic acid separation using immobilized metal affinity chromatography  
JOURNAL Patent: WO 0246398-A 7 13-JUN-2002;  
The University of Houston System (US)  
FEATURES  
source  
1. .20  
/organism="synthetic construct"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:32630"  
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Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 206 GGGGGGGTGGGTGGGGGGG 225  
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Db 20 GGGGGGGGGGGGGGGGGGG 1  
RESULT 74  
AX664310  
LOCUS AX664310 20 bp DNA linear PAT 22-MAR-2003  
DEFINITION Sequence 8 from Patent WO0246398.  
ACCESSION AX664310  
VERSION AX664310.1 GI:29164240  
KEYWORDS synthetic construct  
SOURCE synthetic construct  
ORGANISM other sequences; artificial sequences.

REFERENCE 1  
AUTHORS Willson, R.C. and Murphy, J.C.  
TITLE Nucleic acid separation using immobilized metal affinity chromatography  
JOURNAL Patent: WO 0246398-A 8 13-JUN-2002;  
The University of Houston System (US)  
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Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 206 GGGGGGGTGGGTGGGGGGG 225  
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Db 1 GGGGGGGGGGGGGGGGGGG 20  
RESULT 75  
AX786642  
LOCUS AX786642 20 bp DNA linear PAT 17-JUL-2003  
DEFINITION Sequence 133 from Patent WO03030934.  
ACCESSION AX786642  
VERSION AX786642.1 GI:32954063  
KEYWORDS Homo sapiens (human)  
SOURCE Homo sapiens  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
Hominiidae; Homo.  
REFERENCE 1  
AUTHORS Babiuk, L.A. and Hecker, R.  
TITLE Cpg formulations and related methods  
JOURNAL Patent: WO 03030934-A 133 17-APR-2003;  
QIAGEN GmbH (DE); University of Saskatchewan (CA)  
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1. .20  
/organism="Homo sapiens"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"  
Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 206 GGGGGGGTGGGTGGGGGGG 225  
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Db 1 GGGGGGGGGGGGGGGGGGG 20  
RESULT 76  
BD069976  
LOCUS BD069976 20 bp DNA linear PAT 27-AUG-2002  
DEFINITION Use of nucleic acids containing unmethylated CPG dinucleotide in the treatment of LPS-associated disorders.  
ACCESSION BD069976  
VERSION BD069976.1 GI:22615579  
KEYWORDS JP 2001513776-A/65.  
SOURCE synthetic construct  
ORGANISM synthetic construct  
REFERENCE 1 (bases 1 to 20)  
AUTHORS Schwartz, D.A. and Krieg, A.M.  
TITLE Use of nucleic acids containing unmethylated CPG dinucleotide in the treatment of LPS-associated disorders  
JOURNAL Patent: JP 2001513776-A 65 04-SEP-2001;  
UNIVERSITY OF IOWA RESEARCH FOUNDATION  
COMMENT OS Artificial Sequence  
PN JP 2001513776-A/65

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PD 04-SEP-2001
PR 25-FEB-1998 JP 1998537810
PR 28-FEB-1997 US 60/039405
PI DAVID A SCHWARTZ, ARTHUR M KRIEG
PC A61K49/00, C07H21/02, C07H21/04, A01N43/04
CC synthetic oligonucleotide
FH Key Location/Qualifiers
FT source 1..20
FT Location/Qualifiers
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   1..20
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Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GCGAGCGGGGGGGGGGGG 671
Db ||||| ||||| ||||| ||||| |||||
1 GCGGCGGGGGGGGGGGGGG 20

RESULT 77
LOCUS CQ892090 20 bp DNA PAT 01-NOV-2004
DEFINITION Sequence 133 from Patent WO2004087203.
ACCESSION CQ892090
VERSION CQ892090.1 GI:55164648
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE
AUTHORS Davis, H.L. and McCluskie, M.J.
TITLE Immunostimulatory nucleic acid oil-in-water formulations and
related methods of use
JOURNAL Patent: WO 2004087203-A 133 14-OCT-2004;
Coley Pharmaceutical Group, Ltd. (CA)
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   /mol_type="unassigned DNA"
   /db_xref="taxon:32630"
   /note="Oligonucleotide"

Query Match
Best Local Similarity 0.6%; Score 16.8; DB 1; Length 20;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGGGG 225
Db ||||| ||||| ||||| ||||| |||||
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RESULT 78
LOCUS CS130448 20 bp DNA PAT 02-AUG-2005
DEFINITION Sequence 3 from Patent WO2005063300.
ACCESSION CS130448
VERSION CS130448.1 GI:71792416
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE
AUTHORS Kippenberger, S.
TITLE Cosmetic or pharmaceutical preparations containing nucleic acid
sequences forming a superstructure
JOURNAL Patent: WO 2005063300-A 3 14-JUL-2005;
Phenion GmbH & Co KG (DE)
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   /note="phosphorothioate or phosphodiester"

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   /db_xref="taxon:32630"
   /note="phosphorothioate or phosphodiester"

Query Match
Best Local Similarity 0.6%; Score 16.8; DB 1; Length 20;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGGGG 225
Db ||||| ||||| ||||| ||||| |||||
20 GGGGGGGGGGGGGGGGGG 1

RESULT 79
LOCUS CS130449 20 bp DNA PAT 02-AUG-2005
DEFINITION Sequence 4 from Patent WO2005063300.
ACCESSION CS130449
VERSION CS130449.1 GI:71792417
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE
AUTHORS Kippenberger, S.
TITLE Cosmetic or pharmaceutical preparations containing nucleic acid
sequences forming a superstructure
JOURNAL Patent: WO 2005063300-A 4 14-JUL-2005;
Phenion GmbH & Co KG (DE)
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   /db_xref="taxon:32630"
   /note="phosphorothioate or phosphodiester"

Query Match
Best Local Similarity 0.6%; Score 16.8; DB 1; Length 20;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGGGG 225
Db ||||| ||||| ||||| ||||| |||||
1 GGGGGGGGGGGGGGGGGGG 20

RESULT 80
LOCUS E12675/c 20 bp DNA PAT 27-APR-1998
DEFINITION Anti-HTLV-1 antisense oligonucleotide.
ACCESSION E12675
VERSION E12675.1 GI:3251507
KEYWORDS JP 1997052898-A/9.
SOURCE unidentified
ORGANISM unclassified.
REFERENCE
AUTHORS 1 (bases 1 to 20)
Mizuguchi, M., Kurosaki, N., Makino, K., Koyanagi, Y. and Yamamoto, N.
TITLE ANTI-HTLV-1 ANTI-SENSE OLIGONUCLEOTIDE
JOURNAL Patent: JP 1997052898-A 9 25-FEB-1997;
SOYAKU GIJUTSU KENKYUSHO:KK
COMMENT
OS None
OC Artificial sequences.
PN JP 1997052898-A/9
PD 25-FEB-1997
PF 09-AUG-1995 JP 1995224606
PI MIZUGUCHI MASATSUGU, KUROSAKI NAOKO, MAKINO KEISUKE, PI
KOYANAGI YOSHIO,
PI YAMAMOTO NAOKI
PC C07H21/04//A61K31/70;
CC strandedness: Single;
CC topology: Linear;
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CC hypothetical: No;  
CC anti-sense: Yes;  
FH Key  
FH Location/Qualifiers  
FT source 1..20  
FT Location/Qualifiers  
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/organism="Artificial sequences".  
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Query Match  
Best Local Similarity 0.6%; Score 16.8; DB 1; Length 20;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGTGGGGGGG 225  
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Db 20 GGGGGGGGGGGGGGGGGG 1

RESULT 81  
AR053160/c  
LOCUS AR053160 21 bp DNA linear PAT 29-SEP-1999  
DEFINITION Sequence 66 from patent US 5834183.  
ACCESSION AR053160  
VERSION AR053160.1 GI:5978022  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 21)  
AUTHORS Orr,H.I., Ranum,L.P.W., Chung,M.-Y. and Zoghbi,H.Y.  
TITLE Gene sequence for spinocerebellar ataxia type 1 and method for diagnosis  
JOURNAL Patent: US 5834183-A 66 10-NOV-1999;  
FEATURES  
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Query Match  
Best Local Similarity 0.6%; Score 16.8; DB 1; Length 21;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGCGC 663  
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Db 20 GCAGCAGCAGCAGCAGCAGC 1

RESULT 82  
AR067334/c  
LOCUS AR067334 21 bp DNA linear PAT 29-SEP-1999  
DEFINITION Sequence 682 from patent US 5851760.  
ACCESSION AR067334  
VERSION AR067334.1 GI:5998556  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 21)  
AUTHORS Evans,G.A. and Smith,M.W.  
TITLE Method for generation of sequence sampled maps of complex genomes  
JOURNAL Patent: US 5851760-A 682 22-DEC-1998;  
FEATURES  
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/mol\_type="unassigned DNA"

Query Match  
Best Local Similarity 0.6%; Score 16.8; DB 1; Length 21;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1711 CTTGGCTATGGGACATGTA 1730  
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Db 20 CTGGGCTATGGAGACATGTA 1

RESULT 83  
AR084522/c  
LOCUS AR084522 21 bp DNA linear PAT 01-SEP-2000  
DEFINITION Sequence 11 from patent US 5981185.  
ACCESSION AR084522  
VERSION AR084522.1 GI:10011293  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 21)  
AUTHORS Matson,R.S., Coassin,P.J., Rampal,J.B. and Caskey,C.Thomas.  
TITLE Oligonucleotide repeat arrays  
JOURNAL Patent: US 5981185-A 11 09-NOV-1999;  
FEATURES  
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Query Match  
Best Local Similarity 0.6%; Score 16.8; DB 1; Length 21;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGTGGGGGGG 225  
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Db 21 GGGGGGGGGGGGGGGGGG 2

RESULT 84  
AR084523  
LOCUS AR084523 21 bp DNA linear PAT 01-SEP-2000  
DEFINITION Sequence 12 from patent US 5981185.  
ACCESSION AR084523  
VERSION AR084523.1 GI:10011294  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 21)  
AUTHORS Matson,R.S., Coassin,P.J., Rampal,J.B. and Caskey,C.Thomas.  
TITLE Oligonucleotide repeat arrays  
JOURNAL Patent: US 5981185-A 12 09-NOV-1999;  
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/mol\_type="unassigned DNA"

Query Match  
Best Local Similarity 0.6%; Score 16.8; DB 1; Length 21;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGTGGGGGGG 225  
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Db 1 GGGGGGGGGGGGGGGGGG 20

RESULT 85  
AR084551  
LOCUS AR084551 21 bp DNA linear PAT 01-SEP-2000  
DEFINITION Sequence 40 from patent US 5981185.  
ACCESSION AR084551  
VERSION AR084551.1 GI:10011322  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 21)  
AUTHORS Matson,R.S., Coassin,P.J., Rampal,J.B. and Caskey,C.Thomas.

RESULT 88

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGCGC 663  
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Db 21 GCAGCAGCAGCAGCAGCAGC 2

RESULT 91  
AR093142  
LOCUS 21 bp DNA linear PAT 08-SEP-2000  
DEFINITION Sequence 11 from patent US 5998596.  
ACCESSION AR093142  
VERSION AR093142.1 GI:10019894  
KEYWORDS  
SOURCE  
ORGANISM  
REFERENCE 1 (bases 1 to 21)  
AUTHORS Bergan, R. and Neckers, L.  
TITLE Inhibition of protein kinase activity by aptameric action of oligonucleotides  
JOURNAL Patent: US 5998596-A 11 07-DEC-1999;  
FEATURES Location/Qualifiers  
source  
1. .21  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGCGCGG 671  
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Db 1 GGCAGCAGCGCGCGCGCGG 20

RESULT 92  
AR261393  
LOCUS 21 bp DNA linear PAT 29-JAN-2003  
DEFINITION Sequence 8 from patent US 6322962.  
ACCESSION AR261393  
VERSION AR261393.1 GI:28072403  
KEYWORDS  
SOURCE  
ORGANISM  
REFERENCE 1 (bases 1 to 21)  
AUTHORS Brown, M.S.; Cheng, D.; Espenshade, P.J.; Goldstein, J.L.; Rawson, R.B. and Sakai, J.  
TITLE Sterol-regulated Site-1 protease and assays of modulators thereof  
JOURNAL Patent: US 6322962-A 8 27-NOV-2001;  
BOARD OF Regents, The University of Texas System; Austin, TX  
FEATURES Location/Qualifiers  
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1. .21  
/organism="unknown"  
/mol\_type="genomic DNA"

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2149 AACAAAGGAGCGAGTGCCTG 2168  
||||| ||||| ||||| ||||| |||||  
Db 1 ACCAAGAGGAGCGAGTGCCTG 20

RESULT 93  
AR342463/c  
LOCUS 21 bp DNA linear PAT 17-AUG-2003  
DEFINITION Sequence 13 from patent US 6576423.

AR342463  
AR342463.1 GI:33737473  
KEYWORDS  
SOURCE  
ORGANISM  
REFERENCE 1 (bases 1 to 21)  
AUTHORS Batra, S.K.; Brand, R.E.; Ringel, J.; Faulmann, G.; Lohr, M. and Varshney, G.C.  
TITLE Specific mucin expression as a marker for pancreatic cancer  
JOURNAL Patent: US 6576423-A 13 10-JUN-2003;  
THE BOARD OF Regents of The University of Nebraska; Omaha, NE  
FEATURES Location/Qualifiers  
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1. .21  
/organism="unknown"  
/mol\_type="genomic DNA"

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 824 AACCTGCTGCTGGATGACC 843  
||||| ||||| ||||| ||||| |||||  
Db 21 AGCCTGCTGCTGGATGATC 2

RESULT 94  
AX023407  
LOCUS 21 bp DNA linear PAT 15-SEP-2000  
DEFINITION Sequence 22 from Patent WO0014217.  
ACCESSION AX023407  
VERSION AX023407.1 GI:10183807  
KEYWORDS  
SOURCE  
ORGANISM  
REFERENCE 1  
AUTHORS Lipford, G.B.; Heeg, K. and Wagner, H.  
TITLE G-motif oligonucleotides and uses thereof  
JOURNAL Patent: WO 0014217-A 22 16-MAR-2000; (DE) ; WAGNER HERMANN (DE) ;  
CPG IMMUNOPHARMACEUTICALS GMBH (DE)  
FEATURES Location/Qualifiers  
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/db\_xref="taxon:32630"  
/note="synthetic, no natural origin"

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGGGGGGGGGGGGGGGG 225  
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Db 1 GGGGGGGGGGGGGGGGGGGGGG 20

RESULT 95  
I21020  
LOCUS 21 bp DNA linear PAT 07-OCT-1996  
DEFINITION Sequence 3 from patent US 5518651.  
ACCESSION I21020  
VERSION I21020.1 GI:1601374  
KEYWORDS  
SOURCE  
ORGANISM  
REFERENCE 1 (bases 1 to 21)  
AUTHORS Reddy, P.M. and Hanna, N.B.  
TITLE Methods and reagents for cleaving and deprotecting oligonucleotides  
JOURNAL Patent: US 5518651-A 3 21-MAY-1996;  
FEATURES Location/Qualifiers



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/organism="unknown"
/mol_type="unassigned DNA"

Query Match
Best Local Similarity 0.6%; Score 16.8; DB 1; Length 21;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 206 GCGGGGGTGGGGTGGGGGG 225
Db 1 GCGGGGGGGGGGGGGGGGG 20

RESULT 96
AR336917/c
LOCUS AR336917 18 bp DNA linear PAT 17-AUG-2003
DEFINITION Sequence 25 from patent US 6566131.
ACCESSION AR336917
VERSION AR336917.1 GI:33722771
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 18)
AUTHORS Cowser, L.M.
TITLE Antisense modulation of Smad6 expression
JOURNAL Patent: US 6566131-A 25 20-MAY-2003;
ISIS Pharmaceuticals, Inc.; Carlsbad, CA
FEATURES
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1. .18
/organism="unknown"
/mol_type="genomic DNA"

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Best Local Similarity 0.6%; Score 16.4; DB 1; Length 18;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 657 CAGCGCGCGCGCGGGGG 674
Db 18 CAGCGCGCGCGGGTGG 1

RESULT 97
AR163954/c
LOCUS AR163954 20 bp DNA linear PAT 17-OCT-2001
DEFINITION Sequence 152 from patent US 6271030.
ACCESSION AR163954
VERSION AR163954.1 GI:16234817
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 20)
AUTHORS Monia, B.P., Butler, M.M. and Wyatt, J.
TITLE Antisense inhibition of C/EBP beta expression
JOURNAL Patent: US 6271030-A 152 07-AUG-2001;
ISIS Pharmaceuticals, Inc.; Carlsbad, CA
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1. .20
/organism="unknown"
/mol_type="unassigned DNA"

Query Match
Best Local Similarity 0.6%; Score 16.4; DB 1; Length 20;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 649 AGCGGCAGCAGCGCGGC 666
Db 18 AGCGGCAGCAGCGGCAGC 1

RESULT 98
AR232303/c
LOCUS AR232303 20 bp DNA linear PAT 20-DEC-2002
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DEFINITION Sequence 93 from patent US 6455307.
ACCESSION AR232303
VERSION AR232303.1 GI:27274295
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 20)
AUTHORS McKay, R., Freiler, S.M. and Wyatt, J.
TITLE Antisense modulation of casein kinase 2-alpha prime expression
JOURNAL Patent: US 6455307-A 93 24-SEP-2002;
ISIS Pharmaceuticals, Inc.; Carlsbad, CA
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Query Match
Best Local Similarity 0.6%; Score 16.4; DB 1; Length 20;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 273 CCTCCTCCTCCTCCACCA 290
Db 19 CCTCCTCCTCCTCCTCCA 2

RESULT 99
AR630438/c
LOCUS AR630438 20 bp DNA linear PAT 14-FEB-2005
DEFINITION Sequence 44 from patent US 6841349.
ACCESSION AR630438
VERSION AR630438.1 GI:59765160
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 20)
AUTHORS Coticone, S.R. and Bloch, W.
TITLE Methods for the reduction of stutter in microsatellite
amplification
JOURNAL Patent: US 6841349-A 44 11-JAN-2005;
Applera Corporation Applied Biosystems Group; Foster City, CA
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1. .20
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/mol_type="genomic DNA"

Query Match
Best Local Similarity 0.6%; Score 16.4; DB 1; Length 20;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2365 AGACAGACAGACAGAAAG 2382
Db 19 AGACAGACAGACAGATAG 2

RESULT 100
AR630439/c
LOCUS AR630439 20 bp DNA linear PAT 14-FEB-2005
DEFINITION Sequence 45 from patent US 6841349.
ACCESSION AR630439
VERSION AR630439.1 GI:59765162
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 20)
AUTHORS Coticone, S.R. and Bloch, W.
TITLE Methods for the reduction of stutter in microsatellite
amplification
JOURNAL Patent: US 6841349-A 45 11-JAN-2005;
Applera Corporation Applied Biosystems Group; Foster City, CA
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/mol_type="genomic DNA"
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Query Match
Best Local Similarity 0.6%; Score 16.4; DB 1; Length 20;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2365 AGACAGACAGACAGAAAG 2382
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Db 19 AGACAGACAGACAGATAG 2

RESULT 101
AX053082/c
LOCUS AX053082 20 bp DNA linear PAT 12-JAN-2001
DEFINITION Sequence 6 from Patent WO0071703.
ACCESSION AX053082
VERSION AX053082.1 GI:12227139
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE
1
AUTHORS Macleod,A.R., Li,Z. and Besterman,J.M.
TITLE Inhibition of histone deacetylase
JOURNAL Patent: WO 0071703-A 6 30-NOV-2000;
Methylgene, Inc. (CA)
FEATURES
Location/Qualifiers
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1. .20
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/notes="synthetic oligonucleotide"

Query Match
Best Local Similarity 0.6%; Score 16.4; DB 1; Length 20;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 643 GGCAGCAGCGGCAGCAGC 660
|||||
Db 19 GGCAGCAGCAGCAGCAGC 2

RESULT 102
AX053091/c
LOCUS AX053091 20 bp DNA linear PAT 12-JAN-2001
DEFINITION Sequence 15 from Patent WO0071703.
ACCESSION AX053091
VERSION AX053091.1 GI:12227148
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE
1
AUTHORS Macleod,A.R., Li,Z. and Besterman,J.M.
TITLE Inhibition of histone deacetylase
JOURNAL Patent: WO 0071703-A 15 30-NOV-2000;
Methylgene, Inc. (CA)
FEATURES
Location/Qualifiers
source
1. .20
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/notes="Description of Combined DNA/RNA Molecule: Positions
1-4 and 17-20 are 2'-methoxyribose substituted
nucleotides; positions 5-16 are deoxyribonucleotides"

Query Match
Best Local Similarity 0.6%; Score 16.4; DB 1; Length 20;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 643 GGCAGCAGCGGCAGCAGC 660

source
1. .20
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/notes="oligonucleotide"

Query Match
Best Local Similarity 0.6%; Score 16.4; DB 1; Length 20;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 643 GGCAGCAGCGGCAGCAGC 660
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Db 19 GGCAGCAGCAGCAGCAGC 2

RESULT 103
AX494234
LOCUS AX494234 20 bp DNA linear PAT 26-SEP-2002
DEFINITION Sequence 10 from Patent WO02059379.
ACCESSION AX494234
VERSION AX494234.1 GI:23339844
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE
1
AUTHORS Shuber,A.P.
TITLE Methods for detecting, grading or monitoring an H. pylori infection
JOURNAL Patent: WO 02059379-A 10 01-AUG-2002;
EXACT SCIENCES CORP (US)
FEATURES
Location/Qualifiers
source
1. .20
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/notes="APC forward primer"

Query Match
Best Local Similarity 0.6%; Score 16.4; DB 1; Length 20;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 280 CTCCTCCACCACTCTCTC 297
|||||
Db 1 CACTCCACCACTCTCTC 18

RESULT 104
AX546302/c
LOCUS AX546302 20 bp DNA linear PAT 26-NOV-2002
DEFINITION Sequence 51 from Patent EP1243290.
ACCESSION AX546302
VERSION AX546302.1 GI:25811493
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE
1
AUTHORS Besterman,J.M., Macleod,A.R. and Siders,W.M.
TITLE Modulation of gene expression by combination therapy
JOURNAL Patent: EP 1243290-A 51 25-SEP-2002;
Methylgene, Inc. (CA)
FEATURES
Location/Qualifiers
source
1. .20
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/notes="oligonucleotide"

Query Match
Best Local Similarity 0.6%; Score 16.4; DB 1; Length 20;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 643 GGCAGCAGCGGCAGCAGC 660
|||||
Db 19 GGCAGCAGCAGCAGCAGC 2

RESULT 105
AX546392/c
LOCUS AX546392 20 bp DNA linear PAT 26-NOV-2002
DEFINITION Sequence 51 from Patent EP1243289.
ACCESSION AX546392
VERSION AX546392.1 GI:25811583
KEYWORDS
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SOURCE      synthetic construct
ORGANISM    synthetic construct
REFERENCE   1
AUTHORS     Besterman,J.M., Macleod,A.R. and Siders,W.M.
TITLE       Modulation of gene expression by combination therapy
JOURNAL     Patent: EP 1243289-A 51 25-SEP-2002;
            Methyigene, Inc. (CA)
FEATURES
  source
    Query Match      0.6%; Score 16.4; DB 1; Length 20;
    Best Local Similarity 94.4%; Pred. No. 1.2e+02;
    Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 643 GGCAGCAGCGGCAGCAGC 660
      ||||||| |||||||
Db 19 GGCAGCAGCAGCAGCAGC 2

RESULT 106
BD244919/c
LOCUS      BD244919          20 bp      DNA      linear      PAT 17-JUL-2003
DEFINITION Modulation of gene expression by combination therapy.
ACCESSION  BD244919
VERSION    BD244919.1 GI:33054689
KEYWORDS   synthetic construct
           synthetic construct
           other sequences; artificial sequences.
ORGANISM   1 (bases 1 to 20)
REFERENCE   1 (bases 1 to 20)
AUTHORS     Besterman,J.M., Macleod,A.R. and Siders,W.M.
TITLE       Modulation of gene expression by combination therapy
JOURNAL     Patent: JP 2002528391-A 47 03-SEP-2002;
            METHYLGENE INC
COMMENT     OS Artificial Sequence
            PN JP 2002528391-A/47
            PD 03-SEP-2002
            PF 13-OCT-1999 JP 2000576885
            PR 19-OCT-1998 US 60/104804
            PI JEFFREY M BESTERMAN,ALAN ROBERT MACLEOD,WILLIAM M SIDERS PC
            A61K48/00,A61K31/165,A61K31/19,A61K31/513,A61K31/517,A61K31/
            706,
            PC

A61K31/7068,A61K31/7088,A61K31/7125,A61K45/00,A61P35/00,C12N15/ PC
09//
PC C12N5/10,C12N15/00,C12N5/00
CC antisense
FH Key Location/Qualifiers
FT source 1..20
FT Location/Qualifiers
  source
    Query Match      0.6%; Score 16.4; DB 1; Length 20;
    Best Local Similarity 94.4%; Pred. No. 1.2e+02;
    Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 643 GGCAGCAGCGGCAGCAGC 660
      ||||||| |||||||
Db 19 GGCAGCAGCAGCAGCAGC 2

RESULT 107
A27314/c
LOCUS      A27314          17 bp      DNA      linear      PAT 26-SEP-1995
DEFINITION Synthetic betaGlc linker 2.
ACCESSION  A27314
VERSION    A27314.1 GI:1248430
KEYWORDS   synthetic construct
           synthetic construct
           other sequences; artificial sequences.
ORGANISM   1 (bases 1 to 17)
REFERENCE   1 (bases 1 to 17)
AUTHORS     Sedlacek,H.H.
TITLE       Fusion proteins with monoclonal antibody, Linker and beta
            Glucuronidase for prodrug activation; preparation and use thereof
            Patent: EP 0501215-A 6 02-SEP-1992;
            BEHRINGWERKE Aktiengesellschaft
FEATURES
  source
    Query Match      0.6%; Score 16; DB 1; Length 17;
    Best Local Similarity 100.0%; Pred. No. 1.4e+02;
    Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGG 671
      ||||||| |||||||
Db 16 GCAGCGCGCGCGCGG 1

RESULT 108
AR242714/c
LOCUS      AR242714          17 bp      DNA      linear      PAT 20-DEC-2002
DEFINITION Sequence 2 from patent US 6475486.
ACCESSION  AR242714
VERSION    AR242714.1 GI:27289218
KEYWORDS   Unknown.
           Unknown.
           Unclassified.
ORGANISM   1 (bases 1 to 17)
REFERENCE   1 (bases 1 to 17)
AUTHORS     Kolar,C., Czech,J., Bosslet,K., Seemann,G., Sedlacek,H.-H. and
            Hofman,D.
TITLE       Glycosyl-etoposide prodrugs, a process for preparation thereof and
            the use thereof in combination with functionalized tumor-specific
            enzyme conjugates
JOURNAL     Patent: US 6475486-A 2 05-NOV-2002;
            Aventis Pharma Deutschland GmbH; Frankfurt am Main;
            DEX;
FEATURES
  source
    Query Match      0.6%; Score 16; DB 1; Length 17;
    Best Local Similarity 100.0%; Pred. No. 1.4e+02;
    Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGG 671
      ||||||| |||||||
Db 16 GCAGCGCGCGCGCGG 1

RESULT 109
AR381869/c
LOCUS      AR381869          17 bp      DNA      linear      PAT 18-DEC-2003
DEFINITION Sequence 2 from patent US 6610299.
ACCESSION  AR381869
VERSION    AR381869.1 GI:40090216
KEYWORDS   Unknown.
           Unknown.
           Unclassified.
ORGANISM   1 (bases 1 to 17)
REFERENCE   1 (bases 1 to 17)

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AUTHORS Kolar, C., Czech, J., Bosslet, K., Seemann, G., Sedlacek, H.-H. and Hoffmann, D.  
TITLE Glycosyl-ecoposide prodrugs, a process for preparation thereof and the use thereof in combination with functionalized tumor-specific enzyme conjugates  
JOURNAL Patent: US 6610299-A 2 26-AUG-2003;  
Aventis Pharma Deutschland GmbH; Frankfurt am Main; DEX;

FEATURES source Location/Qualifiers  
1. .17  
/organism="unknown"  
/mol\_type="genomic DNA"

Query Match 0.6%; Score 16; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 1.4e+02;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGG 671  
|||||  
Db 16 GCAGCGCGCGCGCGG 1

RESULT 110  
AR038671  
LOCUS AR038671 19 bp DNA linear PAT 29-SEP-1999  
DEFINITION Sequence 5 from patent US 5807678.  
ACCESSION AR038671  
VERSION AR038671.1 GI:5958034  
KEYWORDS Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 19)  
AUTHORS Miller, W.L., Lin, D. and Strauss, J.F. III.  
TITLE Identification of gene mutations associated with congenital lipid adrenal hyperplasia  
JOURNAL Patent: US 5807678-A 5 15-SEP-1998;  
FEATURES source Location/Qualifiers  
1. .19  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 0.6%; Score 16; DB 1; Length 19;  
Best Local Similarity 100.0%; Pred. No. 1.3e+02;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCAGCAG 659  
|||||  
Db 4 GCAGCAGCGCGCAGCAG 19

RESULT 111  
AR0305293  
LOCUS AR0305293 19 bp DNA linear PAT 12-JUN-2003  
DEFINITION Sequence 247 from patent US 6545137.  
ACCESSION AR0305293  
VERSION AR0305293.1 GI:31694603  
KEYWORDS Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 19)  
AUTHORS Todd, J.A., Hess, J.W., Caskey, C.T., Cox, R.D., Gerhold, D., Hammond, H., Hey, P., Kawaguchi, Y., Merriman, T.R., Metzker, M.L., Nakagawa, Y., Phillips, M.S. and Twells, R.C.J.  
TITLE Receptor  
JOURNAL Patent: US 6545137-A 247 08-APR-2003;  
FEATURES source Location/Qualifiers  
1. .19  
/organism="unknown"  
/mol\_type="genomic DNA"

Query Match 0.6%; Score 16; DB 1; Length 19;

Best Local Similarity 100.0%; Pred. No. 1.3e+02;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1581 CATCTTTGCCACCATG 1596  
|||||  
Db 4 CATCTTTGCCACCATG 19

RESULT 112  
AR0309397  
LOCUS AR0309397 19 bp DNA linear PAT 12-JUN-2003  
DEFINITION Sequence 247 from patent US 6555654.  
ACCESSION AR0309397  
VERSION AR0309397.1 GI:31701402  
KEYWORDS Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 19)  
AUTHORS Todd, J.A., Hess, J.W., Caskey, C.T., Cox, R.D., Gerhold, D., Hammond, H., Hey, P., Kawaguchi, Y., Merriman, T.R., Metzker, M.L., Nakagawa, Y., Phillips, M.S. and Twells, R.C.J.  
TITLE LDL-receptor  
JOURNAL Patent: US 6555654-A 247 29-APR-2003;  
The Wellcome Trust Limited as Trustee for the Wellcome Trust; London; WO;

FEATURES source Location/Qualifiers  
1. .19  
/organism="unknown"  
/mol\_type="genomic DNA"

Query Match 0.6%; Score 16; DB 1; Length 19;  
Best Local Similarity 100.0%; Pred. No. 1.3e+02;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1581 CATCTTTGCCACCATG 1596  
|||||  
Db 4 CATCTTTGCCACCATG 19

RESULT 113  
BD106204  
LOCUS BD106204 19 bp DNA linear PAT 18-SEP-2002  
DEFINITION Novel LDL-receptor.  
ACCESSION BD106204  
VERSION BD106204.1 GI:23201022  
KEYWORDS JP 2002501376-A/219.  
SOURCE Chlamydia sp.  
ORGANISM Chlamydia sp.  
REFERENCE 1 (bases 1 to 19)  
AUTHORS Todd, J.A., Hess, J.W., Caskey, C.T., Cox, R.D., Gerhold, D., Hammond, H. and Hey, P.  
TITLE Novel LDL-receptor  
JOURNAL Patent: JP 2002501376-A 219 15-JAN-2002;  
THE WELLCOME TRUST LTD AS TRUSTEE TO THE WELLCOME TRUST, MERCK & CO INC  
COMMENT FN JP 2002501376-A/219  
PD 15-JAN-2002  
PF 15-APR-1998 JP 1998543635  
PR 15-APR-1997 US 60/043553, 05-JUN-1997 US 60/048740 PI  
JOHN ANDREW TODD, JOHN WILFRED HESS, CHARLES THOMAS CASKEY, ROGER PI DAVID COX,  
PI DAVID GERHOLD, HOLLY HAMMOND, PATRICIA HEY  
PC C12N15/12, C12N15/11, C12Q1/68, C07K14/705, C07K16/28, A61K38/17,  
PC A61K39/395,  
PC A61K48/00  
CC Strandedness: Single;  
CC Topology: Linear;  
FH Key Location/Qualifiers.

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source      1. .19
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            /mol_type="genomic DNA"
            /db_xref="taxon:35827"

Query Match      0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1581 CATCTTTGCCACCATG 1596
Db 4 CATCTTTGCCACCATG 19

RESULT 114
AR212395/c
LOCUS      AR212395      45 bp      DNA      linear      PAT 20-JUN-2002
DEFINITION Sequence 57 from patent US 6399761.
ACCESSION AR212395
VERSION   AR212395.1 GI:21515957.
KEYWORDS
SOURCE    Unknown.
ORGANISM  Unknown.
REFERENCE 1 (bases 1 to 45)
AUTHORS  Miller,A.P., Hu,P., Curran,M.Edward., Rutter,M. and Jiang-Yang,W.
TITLE    Nucleic acid encoding human potassium channel K+ nov1 protein
JOURNAL  Patent: US 6399761-A 57 04-JUN-2002;
FEATURES  Location/Qualifiers
            source
            1..45
            /organism="unknown"
            /mol_type="unassigned DNA"

Query Match      0.6%; Score 16; DB 1; Length 45;
Best Local Similarity 62.5%; Pred. No. 95;
Matches 25; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

Qy 2631 ATGTCCTCCAGTCTCTGCGCCACCCCTGTTTCCACGCC 2670
Db 44 ATGTCCTCGTAGCCCGAGTGTCTCATGTGTGACACAGGCC 5

RESULT 115
AR037410
LOCUS      AR037410      19 bp      DNA      linear      PAT 29-SEP-1999
DEFINITION Sequence 2 from patent US 5801158.
ACCESSION AR037410
VERSION   AR037410.1 GI:5955266
KEYWORDS
SOURCE    Unknown.
ORGANISM  Unknown.
REFERENCE 1 (bases 1 to 19)
AUTHORS  Thompson,J.D. and Draper,K.G.
TITLE    Enzymatic RNA with activity to RAS
JOURNAL  Patent: US 5801158-A 2 01-SEP-1998;
FEATURES  Location/Qualifiers
            source
            1..19
            /organism="unknown"
            /mol_type="unassigned DNA"

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 634 GCGCGTGAGGAGGAGCG 652
Db 1 GCGCGTGAGGAGGAGCG 19

RESULT 116
AR439726
LOCUS      AR439726      19 bp      DNA      linear      PAT 20-FEB-2004

DEFINITION Sequence 44 from patent US 6664442.
ACCESSION AR439726
VERSION   AR439726.1 GI:42665662
KEYWORDS
SOURCE    Unknown.
ORGANISM  Unknown.
REFERENCE 1 (bases 1 to 19)
AUTHORS  McConlogue,L.C., Games,K.D., Yednock,T.A., Hua,T., Messersmith,E.
TITLE    Selecting compounds to reduce inflammation associated with
JOURNAL  Alzheimer's disease
          Patent: US 6664442-A 44 16-DEC-2003;
          Elan Pharmaceuticals, Inc.; South San Francisco, CA;
          WO;
FEATURES  Location/Qualifiers
            source
            1..19
            /organism="unknown"
            /mol_type="genomic DNA"

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1459 CGCATCTCTGCGGATCTTCA 1477
Db 1 CGCATCTCTGAGGGTCTTCA 19

RESULT 117
AX268963
LOCUS      AX268963      19 bp      DNA      linear      PAT 29-OCT-2001
DEFINITION Sequence 44 from Patent WO0175165.
ACCESSION AX268963
VERSION   AX268963.1 GI:16541982
KEYWORDS
SOURCE    synthetic construct
          other sequences; artificial sequences.
ORGANISM  synthetic construct
REFERENCE 1
AUTHORS  Mcconlogue,L.C., Games,K.D., Yednock,T.A., Hua,T., Messersmith,E.
TITLE    Screening markers and methods for neurodegenerative disorders
JOURNAL  Patent: WO 0175165-A 44 11-OCT-2001;
          Elan Pharmaceuticals, Inc. (US)
FEATURES  Location/Qualifiers
            source
            1..19
            /organism="synthetic construct"
            /mol_type="unassigned DNA"
            /db_xref="taxon:32630"
            /note="reverse primer #2-365R"

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1459 CGCATCTCTGCGGATCTTCA 1477
Db 1 CGCATCTCTGAGGGTCTTCA 19

RESULT 118
CQ965368
LOCUS      CQ965368      19 bp      RNA      linear      PAT 13-DEC-2004
DEFINITION Sequence 8 from Patent WO2004097020.
ACCESSION CQ965368
VERSION   CQ965368.1 GI:56563154
KEYWORDS
SOURCE    synthetic construct
          other sequences; artificial sequences.
ORGANISM  synthetic construct
REFERENCE 1
AUTHORS  Mcswiggen,J., Beigelman,L., Usman,N., Haerberli,P., Chowrira,B. and

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Polisky, B.
RNA interference mediated inhibition of MAP kinase gene expression
using short interfering nucleic acid (siNA)
Patent: WO 2004097020-A 8 11-NOV-2004;
SiRNA Therapeutics, Inc. (US)
Location/Qualifiers
1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
sequence/siNA sense region"

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGG 668
      ||||| ||| ||||| |||||
Db 1 GCGGCTGCACCGCGCGCGG 19

RESULT 119
CQ965531/c
LOCUS          19 bp RNA linear PAT 13-DEC-2004
DEFINITION     Sequence 171 from Patent WO2004097020.
ACCESSION      CQ965531
VERSION        CQ965531.1 GI:56563317
KEYWORDS       .
SOURCE         synthetic construct
ORGANISM       other sequences; artificial sequences.
REFERENCE      1
AUTHORS        McSwiggen, J., Beigelman, L., Usman, N., Haerberli, P., Chowrira, B. and
                Polisky, B.
TITLE          RNA interference mediated inhibition of MAP kinase gene expression
                using short interfering nucleic acid (siNA)
JOURNAL        Patent: WO 2004097020-A 171 11-NOV-2004;
                SiRNA Therapeutics, Inc. (US)
FEATURES       Location/Qualifiers
                source
                1. .19
                /organism="synthetic construct"
                /mol_type="unassigned RNA"
                /db_xref="taxon:32630"
                /note="Description of Artificial Sequence: siNA antisense
                region"

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGG 668
      ||||| ||| ||||| |||||
Db 19 GCGGCTGCACCGCGCGCGG 1

RESULT 120
CQ965531/c
LOCUS          19 bp RNA linear PAT 03-JUN-2005
DEFINITION     Sequence 26 from Patent WO2005045032.
ACCESSION      CQ965531
VERSION        CQ965531.1 GI:66949499
KEYWORDS       .
SOURCE         synthetic construct
ORGANISM       other sequences; artificial sequences.
REFERENCE      1
AUTHORS        Usman, N. and McSWIGGEN, J.
TITLE          RNA interference mediated inhibition of early growth response gene
                expression using short interfering Nucleic Acid (siNA)
JOURNAL        Patent: WO 2005045032-A 26 19-MAY-2005;
                SiRNA Therapeutics, Inc. (US)
FEATURES       Location/Qualifiers
                source
                1. .19
                /organism="synthetic construct"
                /mol_type="unassigned RNA"
                /db_xref="taxon:32630"
                /note="Synthetic"

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1. .19
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"
/note="Description of Artificial Sequence: Target
Sequence/siNA sense region"

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 645 CAGCAGCGCAGCAGCGCGG 663
      ||||| ||| ||||| |||||
Db 1 CAGCAGCAGCAGCAGCAGC 19

RESULT 121
CS092126/c
LOCUS          19 bp RNA linear PAT 03-JUN-2005
DEFINITION     Sequence 200 from Patent WO2005045032.
ACCESSION      CS092126
VERSION        CS092126.1 GI:66949673
KEYWORDS       .
SOURCE         synthetic construct
ORGANISM       other sequences; artificial sequences.
REFERENCE      1
AUTHORS        Usman, N. and McSWIGGEN, J.
TITLE          RNA interference mediated inhibition of early growth response gene
                expression using short interfering Nucleic Acid (siNA)
JOURNAL        Patent: WO 2005045032-A 200 19-MAY-2005;
                SiRNA Therapeutics, Inc. (US)
FEATURES       Location/Qualifiers
                source
                1. .19
                /organism="synthetic construct"
                /mol_type="unassigned RNA"
                /db_xref="taxon:32630"
                /note="Description of Artificial Sequence: siNA antisense
                region"

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 645 CAGCAGCGCAGCAGCGCGG 663
      ||||| ||| ||||| |||||
Db 19 CAGCAGCAGCAGCAGCAGC 1

RESULT 122
CS136329/c
LOCUS          19 bp RNA linear PAT 09-AUG-2005
DEFINITION     Sequence 66 from Patent WO2005040379.
ACCESSION      CS136329
VERSION        CS136329.1 GI:72060891
KEYWORDS       .
SOURCE         synthetic construct
ORGANISM       other sequences; artificial sequences.
REFERENCE      1
AUTHORS        McSwiggen, J.
TITLE          RNA interference mediated inhibition of RAS gene expression using
                short interfering Nucleic Acid (siNA)
JOURNAL        Patent: WO 2005040379-A 66 06-MAY-2005;
                SiRNA Therapeutics, Inc. (US)
FEATURES       Location/Qualifiers
                source
                1. .19
                /organism="synthetic construct"
                /mol_type="unassigned RNA"
                /db_xref="taxon:32630"
                /note="Synthetic"

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Query Match 0.6%; Score 15.8; DB 1; Length 19;

VERSION	KEYWORDS	ORGANISM	REFERENCE	AUTHORS	TITLE	JOURNAL	FEATURES	source	Query Match	Best Local Similarity	Score	DB	Length	Indels	Gaps									
AR042887.1	GI:5963383	Unknown.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	0.5%;	Score 15.4;	DB 1;	Length 17;	Indels 0;	Gaps 0;										
QY	657	CAGCGCGCGCGCGCGCGC 675	1	CAGCGCGCGCGCGCGCAGTGGC 19	CS136404	Sequence 141 from Patent WO2005040379.	CS136404	CS136404.1	GI:72060982	synthetic construct	synthetic construct	other sequences; artificial sequences.	McSwiggen, J.	RNA interference mediated inhibition of RAS gene expression using short interfering Nucleic Acid (siRNA)	Patent: WO 2005040379-A 141 06-MAY-2005;	Sirna Therapeutics, Inc. (US)	Location/Qualifiers	1..19	0.6%;	Score 15.8;	DB 1;	Length 19;	Indels 0;	Gaps 0;
Db	1	CAGCGCGCGCGCGCGCAGTGGC 19	1	CAGCGCGCGCGCGCGCAGTGGC 19	CS136404	Sequence 141 from Patent WO2005040379.	CS136404	CS136404.1	GI:72060982	synthetic construct	synthetic construct	other sequences; artificial sequences.	McSwiggen, J.	RNA interference mediated inhibition of RAS gene expression using short interfering Nucleic Acid (siRNA)	Patent: WO 2005040379-A 141 06-MAY-2005;	Sirna Therapeutics, Inc. (US)	Location/Qualifiers	1..19	0.6%;	Score 15.8;	DB 1;	Length 19;	Indels 0;	Gaps 0;
RESULT 123	CS136404/c	LOCUS	DEFINITION	Sequence 141 from Patent WO2005040379.	CS136404	CS136404.1	GI:72060982	synthetic construct	synthetic construct	other sequences; artificial sequences.	McSwiggen, J.	RNA interference mediated inhibition of RAS gene expression using short interfering Nucleic Acid (siRNA)	Patent: WO 2005040379-A 141 06-MAY-2005;	Sirna Therapeutics, Inc. (US)	Location/Qualifiers	1..19	0.6%;	Score 15.8;	DB 1;	Length 19;	Indels 0;	Gaps 0;		
QY	657	CAGCGCGCGCGCGCGCGC 675	1	CAGCGCGCGCGCGCGCAGTGGC 19	CS136404	Sequence 141 from Patent WO2005040379.	CS136404	CS136404.1	GI:72060982	synthetic construct	synthetic construct	other sequences; artificial sequences.	McSwiggen, J.	RNA interference mediated inhibition of RAS gene expression using short interfering Nucleic Acid (siRNA)	Patent: WO 2005040379-A 141 06-MAY-2005;	Sirna Therapeutics, Inc. (US)	Location/Qualifiers	1..19	0.6%;	Score 15.8;	DB 1;	Length 19;	Indels 0;	Gaps 0;
Db	1	CAGCGCGCGCGCGCGCAGTGGC 19	1	CAGCGCGCGCGCGCGCAGTGGC 19	CS136404	Sequence 141 from Patent WO2005040379.	CS136404	CS136404.1	GI:72060982	synthetic construct	synthetic construct	other sequences; artificial sequences.	McSwiggen, J.	RNA interference mediated inhibition of RAS gene expression using short interfering Nucleic Acid (siRNA)	Patent: WO 2005040379-A 141 06-MAY-2005;	Sirna Therapeutics, Inc. (US)	Location/Qualifiers	1..19	0.6%;	Score 15.8;	DB 1;	Length 19;	Indels 0;	Gaps 0;
RESULT 124	157438	LOCUS	DEFINITION	Sequence 2 from patent US 5610052.	157438	157438.1	GI:2482502	Unknown.	Unknown.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.
QY	657	CAGCGCGCGCGCGCGCGC 675	1	CAGCGCGCGCGCGCGCAGTGGC 1	157438	Sequence 2 from patent US 5610052.	157438	157438.1	GI:2482502	Unknown.	Unknown.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	
Db	1	CAGCGCGCGCGCGCGCAGTGGC 1	1	CAGCGCGCGCGCGCGCAGTGGC 1	157438	Sequence 2 from patent US 5610052.	157438	157438.1	GI:2482502	Unknown.	Unknown.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	
RESULT 125	AR042887/c	LOCUS	DEFINITION	Sequence 17 from patent US 5811538.	AR042887	AR042887.1	GI:5963383	Unknown.	Unknown.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	
QY	634	GGCGGTGCAGGCAGCAGCG 652	1	GGCGGTGCAGGCAGCAGCG 19	AR042887	Sequence 17 from patent US 5811538.	AR042887	AR042887.1	GI:5963383	Unknown.	Unknown.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	
Db	1	GGCGGTGCAGGCAGCAGCG 19	1	GGCGGTGCAGGCAGCAGCG 19	AR042887	Sequence 17 from patent US 5811538.	AR042887	AR042887.1	GI:5963383	Unknown.	Unknown.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	
RESULT 126	AR045385	LOCUS	DEFINITION	Sequence 178 from patent US 5817796.	AR045385	AR045385.1	GI:5966850	Unknown.	Unknown.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	
QY	269	CCTGCTCTCTCTCTCTCTC 285	1	CCTGCTCTCTCTCTCTCTC 1	AR045385	Sequence 178 from patent US 5817796.	AR045385	AR045385.1	GI:5966850	Unknown.	Unknown.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	Unassigned.	
Db	1	CCTGCTCTCTCTCTCTCTC 1	1	CCTGCTCTCTCTCTCTCTC 1	AR045385	Sequence 178 from patent US 5817796.	AR04																	

Query Match	0.5%	Score 15.4;	DB 1;	Length 17;
Best Local Similarity	94.1%	Pred. No. 1.5e+02;		

Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 512 TCATCATCAACGTGGGC 528  
Db 17 TCATCATCAAGTGGCC 1

RESULT 128  
LOCUS I37550 17 bp DNA linear PAT 13-MAY-1997  
DEFINITION Sequence 563 from patent US 5612215.  
ACCESSION I37550  
VERSION I37550.1 GI:2085510  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Draper,K.G., Pavco,P., McSwiggen,J., Gustofson,J. and Stinchcomb,D.T.  
TITLE Stromelysin targeted ribozymes  
JOURNAL Patent: US 5612215-A 563 18-MAR-1997;  
FEATURES Location/Qualifiers  
source 1..17  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 0.5%; Score 15.4; DB 1; Length 17;  
Best Local Similarity 94.1%; Pred. No. 1.5e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 473 TGAAGGAGAGATGGCC 489  
Db 17 TGAAGGAAGATGGCC 1

RESULT 129  
LOCUS I52437 17 bp DNA linear PAT 07-OCT-1997  
DEFINITION Sequence 178 from patent US 5646042.  
ACCESSION I52437  
VERSION I52437.1 GI:2473638  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Stinchcomb,D.T., Draper,K., McSwiggen,J. and Jarvis,T.  
TITLE C-myb targeted ribozymes  
JOURNAL Patent: US 5646042-A 178 08-JUL-1997;  
FEATURES Location/Qualifiers  
source 1..17  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 0.5%; Score 15.4; DB 1; Length 17;  
Best Local Similarity 94.1%; Pred. No. 1.5e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 292 CTCCTCTCTCTCTCGT 308  
Db 1 CTCCTCTCTCTCTCTCT 17

RESULT 130  
LOCUS I94324 17 bp DNA linear PAT 01-DEC-1998  
DEFINITION Sequence 487 from patent US 5731295.  
ACCESSION I94324  
VERSION I94324.1 GI:3938794  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.

Unclassified.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Draper,K.G., Pavco,P., McSwiggen,J., Gustofson,J. and Stinchcomb,D.T.  
TITLE Method of reducing stromelysin RNA via ribozymes  
JOURNAL Patent: US 5731295-A 487 24-MAR-1998;  
FEATURES Location/Qualifiers  
source 1..17  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 0.5%; Score 15.4; DB 1; Length 17;  
Best Local Similarity 94.1%; Pred. No. 1.5e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 512 TCATCATCAACGTGGGC 528  
Db 17 TCATCATCAAGTGGCC 1

RESULT 131  
LOCUS I94400 17 bp DNA linear PAT 01-DEC-1998  
DEFINITION Sequence 563 from patent US 5731295.  
ACCESSION I94400  
VERSION I94400.1 GI:3938870  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Draper,K.G., Pavco,P., McSwiggen,J., Gustofson,J. and Stinchcomb,D.T.  
TITLE Method of reducing stromelysin RNA via ribozymes  
JOURNAL Patent: US 5731295-A 563 24-MAR-1998;  
FEATURES Location/Qualifiers  
source 1..17  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 0.5%; Score 15.4; DB 1; Length 17;  
Best Local Similarity 94.1%; Pred. No. 1.5e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 473 TGAAGGAGAGATGGCC 489  
Db 17 TGAAGGAAGATGGCC 1

RESULT 132  
LOCUS A67594 18 bp DNA linear PAT 05-MAY-1999  
DEFINITION Sequence 14 from Patent WO9744485.  
ACCESSION A67594  
VERSION A67594.1 GI:4756457  
KEYWORDS  
SOURCE unidentified  
ORGANISM unidentified  
REFERENCE 1 (bases 1 to 18)  
AUTHORS Goodfellow,P.N.  
TITLE METHODS FOR IDENTIFYING A MUTATION IN A GENE OF INTEREST  
JOURNAL Patent: WO 9744485-A 14 27-NOV-1997;  
FEATURES HEXAGEN TECHNOLOGY LIMITED (GB)  
Location/Qualifiers  
source 1..18  
/organism="unidentified"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:32644"

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.5e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;



[illegible]

QY	659	GCGGCGGGCGGGGGC	675
Db	1	GCGGCGGGCGGGGGC	17
RESULT 133			
LOCUS	AR084528/c		
DEFINITION	Sequence 17 from patent US 5981185.	linear	PAT 01-SEP-2000
ACCESSION	AR084528		
VERSION	AR084528.1	GI:10011299	
KEYWORDS	Unknown.		
SOURCE	Unknown.		
ORGANISM	Unclassified.		
REFERENCE	1 (bases 1 to 18)		
AUTHORS	Matson,R.S., Coassin,P.J., Rampal,J.B. and Caskey,C.Thomas.		
TITLE	Oligonucleotide repeat arrays		
JOURNAL	Patent: US 5981185-A 17 09-NOV-1999;		
FEATURES	Location/Qualifiers		
source	1..18		
	/organism="unknown"		
	/mol_type="unassigned DNA"		
Query Match	0.5%; Score 15.4; DB 1; Length 18;		
Best Local Similarity	94.1%; Pred. No. 1.5e+02;		
Matches	16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;		
QY	644	GCAGCAGCGCAGCAGC	660
Db	18	GCAGCAGCAGCAGC	2
RESULT 134			
LOCUS	AR089732		
DEFINITION	Sequence 14 from patent US 5994075.	linear	PAT 07-SEP-2000
ACCESSION	AR089732		
VERSION	AR089732.1	GI:10016487	
KEYWORDS	Unknown.		
SOURCE	Unknown.		
ORGANISM	Unclassified.		
REFERENCE	1 (bases 1 to 18)		
AUTHORS	Goodfellow,P.N.		
TITLE	Methods for identifying a mutation in a gene of interest without a phenotypic guide		
JOURNAL	Patent: US 5994075-A 14 30-NOV-1999;		
FEATURES	Location/Qualifiers		
source	1..18		
	/organism="unknown"		
	/mol_type="unassigned DNA"		
Query Match	0.5%; Score 15.4; DB 1; Length 18;		
Best Local Similarity	94.1%; Pred. No. 1.5e+02;		
Matches	16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;		
QY	659	GCGGCGGGCGGGGGC	675
Db	1	GCGGCGGGCGGGGGC	17
RESULT 135			
LOCUS	AR196700/c		
DEFINITION	Sequence 1165 from patent US 6350934.	linear	PAT 20-APR-2002
ACCESSION	AR196700		
VERSION	AR196700.1	GI:20246137	
KEYWORDS	Unknown.		
SOURCE	Unknown.		
ORGANISM	Unclassified.		
REFERENCE	1 (bases 1 to 18)		
AUTHORS	Barbas,C.F. III, Gottesfeld,J.M. and Wright,P.E.		
TITLE	Zinc finger protein derivatives and methods therefor		
JOURNAL	Patent: US 6790941-A 68 14-SEP-2004;		
FEATURES	Location/Qualifiers		
source	1..18		
	/organism="unknown"		
	/mol_type="genomic DNA"		
Query Match	0.5%; Score 15.4; DB 1; Length 18;		
Best Local Similarity	94.1%; Pred. No. 1.5e+02;		
Matches	16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;		
QY	1334	AGAACCCTGCTCAACATC	1350
Db	18	AGAACCCTGCTCAACATC	2
RESULT 137			
LOCUS	AR581581		
DEFINITION	Sequence 68 from patent US 6790941.	linear	PAT 15-DEC-2004
ACCESSION	AR581581		
VERSION	AR581581.1	GI:56612864	
KEYWORDS	Unknown.		
SOURCE	Unknown.		
ORGANISM	Unclassified.		
REFERENCE	1 (bases 1 to 18)		
AUTHORS	Barbas,C.F. III, Gottesfeld,J.M. and Wright,P.E.		
TITLE	Zinc finger protein derivatives and methods therefor		
JOURNAL	Patent: US 6790941-A 68 14-SEP-2004;		
FEATURES	Location/Qualifiers		
source	1..18		
	/organism="unknown"		
	/mol_type="genomic DNA"		
Query Match	0.5%; Score 15.4; DB 1; Length 18;		
Best Local Similarity	94.1%; Pred. No. 1.5e+02;		
Matches	16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;		
QY	659	GCGGCGGGCGGGGGC	675
Db	1	GCGGCGGGCGGGGGC	17
REFERENCE	1 (bases 1 to 18)		
AUTHORS	Zwick,M.G., Edington,B.E., McSwiggen,J.A., Merlo,P.Ann.Owens., Guo,L., Skokut,T.A., Young,S.A., Folkerts,O. and Merlo,D.J.		
TITLE	Nucleic acid encoding delta-9 desaturase		
JOURNAL	Patent: US 6350934-A 1165 26-FEB-2002;		
FEATURES	Location/Qualifiers		
source	1..18		
	/organism="unknown"		
	/mol_type="unassigned DNA"		
Query Match	0.5%; Score 15.4; DB 1; Length 18;		
Best Local Similarity	94.1%; Pred. No. 1.5e+02;		
Matches	16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;		
QY	656	GCAGCGGGCGGGGGC	672
Db	18	GCGGCGGGCGGGGGC	2
RESULT 136			
LOCUS	AR266212/c		
DEFINITION	Sequence 24 from patent US 6492173.	linear	PAT 10-APR-2003
ACCESSION	AR266212		
VERSION	AR266212.1	GI:29695058	
KEYWORDS	Unknown.		
SOURCE	Unknown.		
ORGANISM	Unclassified.		
REFERENCE	1 (bases 1 to 18)		
AUTHORS	Cowseert,L.M.		
TITLE	Antisense inhibition of cyclin D2 expression		
JOURNAL	Patent: US 6492173-A 24 10-DEC-2002;		
FEATURES	Location/Qualifiers		
source	1..18		
	/organism="unknown"		
	/mol_type="genomic DNA"		
Query Match	0.5%; Score 15.4; DB 1; Length 18;		
Best Local Similarity	94.1%; Pred. No. 1.5e+02;		

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Db      1  GCGGCGGCGGCGGCGC 17
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AX598368
LOCUS      18 bp      DNA      linear      PAT 14-FEB-2003
DEFINITION Sequence 642 from Patent WO244994.
ACCESSION AX598368
VERSION    AX598368.1  GI:28398544
KEYWORDS   synthetic construct
SOURCE     other sequences; artificial sequences.
ORGANISM
REFERENCE
AUTHORS    Brower,A., Brow,M.A., Cracauer,R.F., Fors,L., Granske,R., de arruda
Indig,M., Kurensky,D., Luedtke,C., Lukowiak,A.A., Lyamichev,V.,
Neri,B.P., Reimer,N.D., Roeven,R.T., Skrzypczynski,Z., Ziarno,W.A.,
Comarford,J., Stump,S. and Viegut,D.D.
TITLE      Systems and method for detection assay production and sale
JOURNAL    Patent: WO 0244994-A 642 06-JUN-2002;
THIRD WAVE TECHNOLOGIES, INC. (US)
FEATURES   Location/Qualifiers
source     1..18
            /organism="synthetic construct"
            /mol_type="unassigned DNA"
            /db_xref="taxon:32630"
Query Match      0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.5e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      644 GCAGCAGCGCGCAGCAGC 660
|||||
Db      1  GCAGCAGCAGCAGCAGC 17

RESULT 139
AX598368
LOCUS      18 bp      RNA      linear      PAT 21-FEB-2003
DEFINITION Sequence 2941 from Patent EP1260586.
ACCESSION AX598368
VERSION    AX598368.1  GI:28471416
KEYWORDS   unidentified
SOURCE     unclassified sequences.
ORGANISM
REFERENCE
AUTHORS    Stinchcomb,D.T., Dudycz,L.W., Chowrira,B., Draper,K.G., Matulic-Adamic,J.,
Karpeisky,A., Draper,K.G., Kisich,K., Pavco,P., Beigelman,L., Sullivan,S.M.,
McSwiggen,J.A., Modak,A., Tracz,D., Usman,N., Wincott,F.E. and
Woolf,T.
TITLE      Method and reagent for inhibiting the expression of disease related
genes
JOURNAL    Patent: EP 1260586-A 2941 27-NOV-2002;
RIBOZYME PHARMACEUTICALS, INC. (US)
FEATURES   Location/Qualifiers
source     1..18
            /organism="unidentified"
            /mol_type="unassigned RNA"
            /db_xref="taxon:32644"
Query Match      0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.5e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      266 CCTCTGCTCTCTCTCTC 282
|||||
Db      2  CCTCTGCTCTCTCTCTC 18

RESULT 140
AX598368
LOCUS      18 bp      DNA      linear      PAT 07-FEB-2005
DEFINITION Sequence 2990 from Patent EP1502950.
ACCESSION AX598368
VERSION    AX598368.1  GI:28471465
KEYWORDS   unidentified
SOURCE     unclassified sequences.
ORGANISM
REFERENCE
AUTHORS    Stinchcomb,D.T., Dudycz,L.W., Chowrira,B., Grimm,S., Direnzo,A.,
Karpeisky,A., Draper,K.G., Kisich,K., Matulic-Adamic,J.,
McSwiggen,J.A., Modak,A., Pavco,P., Beigelman,L., Sullivan,S.M.,
Sweedler,D., Thompson,J.D., Tracz,D., Usman,N., Wincott,F.E. and
Woolf,T.
TITLE      Method and reagent for inhibiting the expression of disease related
genes
JOURNAL    Patent: EP 1260586-A 2990 27-NOV-2002;
RIBOZYME PHARMACEUTICALS, INC. (US)
FEATURES   Location/Qualifiers
source     1..18
            /organism="unidentified"
            /mol_type="unassigned RNA"
            /db_xref="taxon:32644"
Query Match      0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.5e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      266 CCTCTGCTCTCTCTCTC 282
|||||
Db      2  CCTCTGCTCTCTCTCTC 18

RESULT 141
AX598368
LOCUS      18 bp      DNA      linear      PAT 07-FEB-2005
DEFINITION Sequence 2941 from Patent EP1502950.
ACCESSION AX598368
VERSION    AX598368.1  GI:58740268
KEYWORDS   unidentified
SOURCE     unclassified.
ORGANISM
REFERENCE
AUTHORS    Stinchcomb,D.T., Chowrira,B., Direnzo,A., Draper,K.G., Dudycz,L.W.,
Grimm,S., Karpeisky,A., Kisich,K., Matulic-Adamic,J.,
McSwiggen,J.A., Modak,A., Pavco,P., Beigelman,L., Sullivan,S.M.,
Sweedler,D., Thompson,J.D., Tracz,D., Usman,N., Wincott,F.E. and
Woolf,T.
TITLE      Method for purifying chemically modified RNA
JOURNAL    Patent: EP 1502950-A 2941 02-FEB-2005;
Ribozyne Pharmaceuticals, Inc. (US)
FEATURES   Location/Qualifiers
source     1..18
            /organism="unidentified"
            /mol_type="unassigned DNA"
            /db_xref="taxon:32644"
Query Match      0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.5e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      266 CCTCTGCTCTCTCTCTC 282
|||||
Db      2  CCTCTGCTCTCTCTCTC 18

RESULT 142
AX598368
LOCUS      18 bp      DNA      linear      PAT 07-FEB-2005
DEFINITION Sequence 2990 from Patent EP1502950.
ACCESSION AX598368
VERSION    AX598368.1  GI:28471465
KEYWORDS   unidentified
SOURCE     unclassified sequences.
ORGANISM
REFERENCE
AUTHORS    Stinchcomb,D.T., Dudycz,L.W., Chowrira,B., Draper,K.G., Dudycz,L.W.,
Grimm,S., Karpeisky,A., Kisich,K., Matulic-Adamic,J.,
McSwiggen,J.A., Modak,A., Pavco,P., Beigelman,L., Sullivan,S.M.,
Sweedler,D., Thompson,J.D., Tracz,D., Usman,N., Wincott,F.E. and
Woolf,T.
TITLE      Method and reagent for inhibiting the expression of disease related
genes
JOURNAL    Patent: EP 1260586-A 2941 27-NOV-2002;
RIBOZYME PHARMACEUTICALS, INC. (US)
FEATURES   Location/Qualifiers
source     1..18
            /organism="unidentified"
            /mol_type="unassigned RNA"
            /db_xref="taxon:32644"
Query Match      0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.5e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      266 CCTCTGCTCTCTCTCTC 282
|||||
Db      2  CCTCTGCTCTCTCTCTC 18

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VERSION      CS004962.1  GI:58740317
KEYWORDS     .
SOURCE       unidentified
ORGANISM     unclassified.
REFERENCE    1
AUTHORS      Stinchcomb,D.T., Chowrira,B., Direnzo,A., Draper,K.G., Dudycz,L.W.,
              Grimm,S., Karpeisky,A., Kisich,K., Matulic-Adamic,J.,
              McSwiggen,J.A., Modak,A., Pavco,P., Beigelman,L., Sullivan,S.M.,
              Sweedler,D., Thompson,J.D., Tracz,D., Usman,N., Wincott,F.E. and
              Woolf,T.
TITLE        Method for purifying chemically modified RNA
JOURNAL      Patent: EP 1502950-A 2990 02-FEB-2005;
FEATURES     Ribozyme Pharmaceuticals, Inc. (US)
              Location/Qualifiers
                1..18
                /organism="unidentified"
                /mol_type="unassigned DNA"
                /db_xref="taxon:32644"
              source
Query Match      0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.5e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 266 CCTCTGCTCTCTCTCTC 282
Db 2 CCTCTGCTCTCTCTCTC 18

RESULT 143
127225/c
LOCUS      127225          18 bp  DNA          linear          PAT 06-FEB-1997
DEFINITION Sequence 31 from patent US 5563254.
ACCESSION  127225
VERSION    127225.1  GI:1818001
KEYWORDS   .
SOURCE     Unknown.
ORGANISM   Unclassified.
REFERENCE  1 (bases 1 to 18)
AUTHORS    Hoffman,S.J. and Nagai,K.
TITLE      Polynucleotides encoding genetically engineered mutant hemoglobins
JOURNAL    Patent: US 5563254-A 31 08-OCT-1996;
FEATURES    Location/Qualifiers
              1..18
              /organism="unknown"
              /mol_type="unassigned DNA"
Query Match      0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.5e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1224 GGTAGAAACAGAACCA 1240
Db 17 GGTAGAAACAGAACCA 1

RESULT 144
139699
LOCUS      139699          18 bp  DNA          linear          PAT 13-MAY-1997
DEFINITION Sequence 737 from patent US 5616488.
ACCESSION  139699
VERSION    139699.1  GI:2084179
KEYWORDS   .
SOURCE     Unknown.
ORGANISM   Unclassified.
REFERENCE  1 (bases 1 to 18)
AUTHORS    Sullivan,S., Draper,K.G., McSwiggen,J. and Stinchcomb,D.T.
TITLE      IL-5 targeted ribozymes
JOURNAL    Patent: US 5616488-A 737 01-APR-1997;
FEATURES    Location/Qualifiers
              1..18
              /organism="unknown"
              /mol_type="unassigned DNA"
Query Match      0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.5e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1224 GGTAGAAACAGAACCA 1240
Db 17 GGTAGAAACAGAACCA 1

RESULT 145
163108/c
LOCUS      163108          18 bp  DNA          linear          PAT 07-OCT-1997
DEFINITION Sequence 31 from patent US 5661124.
ACCESSION  163108
VERSION    163108.1  GI:2480816
KEYWORDS   .
SOURCE     Unknown.
ORGANISM   Unclassified.
REFERENCE  1 (bases 1 to 18)
AUTHORS    Hoffman,S.J. and Nagai,K.
TITLE      Blood substitutes
JOURNAL    Patent: US 5661124-A 31 26-AUG-1997;
FEATURES    Location/Qualifiers
              1..18
              /organism="unknown"
              /mol_type="unassigned DNA"
Query Match      0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.5e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1224 GGTAGAAACAGAACCA 1240
Db 17 GGTAGAAACAGAACCA 1

RESULT 146
AR045383
LOCUS      AR045383          17 bp  DNA          linear          PAT 29-SEP-1999
DEFINITION Sequence 176 from patent US 5817796.
ACCESSION  AR045383
VERSION    AR045383.1  GI:5966848
KEYWORDS   .
SOURCE     Unknown.
ORGANISM   Unclassified.
REFERENCE  1 (bases 1 to 17)
AUTHORS    Stinchcomb,D.T., Draper,K., McSwiggen,J. and Jarvis,T.
TITLE      C-myb ribozymes having 2'-5'-linked adenylylate residues
JOURNAL    Patent: US 5817796-A 176 06-OCT-1998;
FEATURES    Location/Qualifiers
              1..17
              /organism="unknown"
              /mol_type="unassigned DNA"
Query Match      0.5%; Score 15; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 291 CCTCTCTCTCTCTCT 305
Db 3 CCTCTCTCTCTCTCT 17

RESULT 147
AR221900/c
LOCUS      AR221900          17 bp  DNA          linear          PAT 26-SEP-2002
DEFINITION Sequence 3 from patent US 6428964.
ACCESSION  AR221900
```

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VERSION      AR221900.1  GI:23329017
KEYWORDS
SOURCE       Unknown.
ORGANISM     Unclassified.
REFERENCE    1 (bases 1 to 17)
AUTHORS      Shuber,A.P.
TITLE        Method for alteration detection
JOURNAL      Patent: US 6428964-A 3 06-AUG-2002;
              Exact Sciences Corporation; Maynard, MA
FEATURES
  source
    1..17
      /organism="unknown"
      /mol_type="genomic DNA"
  Query Match      0.5%; Score 15; DB 1; Length 17;
  Best Local Similarity 100.0%; Pred. No. 1.6e+02;
  Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 283 CTCACCACTCTCTC 297
Db 17 CTCACCACTCTCTC 3

RESULT 148
AX217020/C
LOCUS       AX217020                17 bp      RNA      linear      PAT 07-SEP-2001
DEFINITION Sequence 2462 from Patent WO0159103.
ACCESSION  AX217020
VERSION     AX217020.1  GI:15527081
KEYWORDS   .
SOURCE     .
ORGANISM   Homo sapiens
            Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
            Hominoidea; Homo.
REFERENCE   1
AUTHORS     Blatt,L., McSwiggen,J. and Chowrira,B.M.
TITLE       Method and reagent for the modulation and diagnosis of cd20 and
            nogo gene expression
JOURNAL     Patent: WO 0159103-A 2462 16-AUG-2001;
            RIBOZYME PHARMACEUTICALS, INC. (US) ; Blatt, Lawrence (US) ;
            McSwiggen, James (US) ; Chowrira, Bharat M. (US)
FEATURES
  source
    1..17
      /organism="synthetic construct"
      /mol_type="unassigned RNA"
      /db_xref="taxon:32630"
      /note="Nucleic Acid"
  Query Match      0.5%; Score 15; DB 1; Length 17;
  Best Local Similarity 100.0%; Pred. No. 1.6e+02;
  Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1098 TCTCTTCTTCATCTT 1112
Db 15 TCTCTTCTTCATCTT 1

RESULT 149
I52435
LOCUS       I52435                17 bp      DNA      linear      PAT 07-OCT-1997
DEFINITION Sequence 176 from patent US 5646042.
ACCESSION  I52435
VERSION     I52435.1  GI:2473636
KEYWORDS   .
SOURCE     .
ORGANISM   Unknown.
            Unclassified.
REFERENCE   1 (bases 1 to 17)
AUTHORS     Stinchcomb,D.T., Draper,K., McSwiggen,J. and Jarvis,T.
TITLE       C-myc targeted ribozymes
JOURNAL     Patent: US 5646042-A 176 08-JUL-1997;
            Exact Sciences Corporation; Maynard, MA
FEATURES
  source
    1..17
      /organism="synthetic construct"
      /mol_type="unassigned DNA"
      /db_xref="taxon:32630"
      /note="reverse primer"
  Query Match      0.5%; Score 15; DB 1; Length 18;
  Best Local Similarity 100.0%; Pred. No. 1.5e+02;
  Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 659 GCGGCGGCGGCGGG 673
Db 18 GCGGCGGCGGCGGG 4

RESULT 151
CQ859936/C
LOCUS       CQ859936                18 bp      DNA      linear      PAT 10-SEP-2004
DEFINITION Sequence 102 from Patent WO2004071572.
ACCESSION  CQ859936
VERSION     CQ859936.1  GI:51981849
KEYWORDS   .
SOURCE     .
ORGANISM   Homo sapiens
            Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
            Hominoidea; Homo.
REFERENCE   1
AUTHORS     Agus,D., Shak,S., Cronin,M.T. and Baker,J.B.
TITLE       Gene expression markers for response to egfr inhibitor drugs
JOURNAL     Patent: WO 2004071572-A 102 26-AUG-2004;
            Genomic Health, Inc. (US); Cedars-Sinai Medical Center (US)
FEATURES
  source
    1..18
      /organism="synthetic construct"
      /mol_type="unassigned DNA"
      /db_xref="taxon:32630"
      /note="reverse primer"
  Query Match      0.5%; Score 15; DB 1; Length 18;
  Best Local Similarity 100.0%; Pred. No. 1.5e+02;
  Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1098 TCTCTTCTTCATCTT 1112
Db 15 TCTCTTCTTCATCTT 1

RESULT 152
I52435
LOCUS       I52435                17 bp      DNA      linear      PAT 07-OCT-1997
DEFINITION Sequence 176 from patent US 5646042.
ACCESSION  I52435
VERSION     I52435.1  GI:2473636
KEYWORDS   .
SOURCE     .
ORGANISM   Unknown.
            Unclassified.
REFERENCE   1 (bases 1 to 17)
AUTHORS     Stinchcomb,D.T., Draper,K., McSwiggen,J. and Jarvis,T.
TITLE       C-myc targeted ribozymes
JOURNAL     Patent: US 5646042-A 176 08-JUL-1997;
            Exact Sciences Corporation; Maynard, MA
FEATURES
  source
    1..17
      /organism="synthetic construct"
      /mol_type="unassigned DNA"
      /db_xref="taxon:32630"
      /note="reverse primer"
  Query Match      0.5%; Score 15; DB 1; Length 18;
  Best Local Similarity 100.0%; Pred. No. 1.5e+02;
  Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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[illegible]

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Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGTGGGG 223
Db 18 GGGGGGGGGGGGGGGG 1

RESULT 157
AR096353
LOCUS AR096353 18 bp DNA linear PAT 08-SEP-2000
DEFINITION Sequence 24 from patent US 6007995.
ACCESSION AR096353
VERSION AR096353.1 GI:10025087
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 18)
AUTHORS Baker,B.F. and Cowser,L.M.
TITLE Antisense inhibition of TNF1 expression
JOURNAL Patent: US 6007995-A 24 28-DEC-1999;
FEATURES Location/Qualifiers
source
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 645 CAGCAGCGCAGCAGCGG 662
Db 1 CACCAGCGCAGCAGCAG 18

RESULT 158
AR096649/c
LOCUS AR096649 18 bp DNA linear PAT 08-SEP-2000
DEFINITION Sequence 33 from patent US 6008048.
ACCESSION AR096649
VERSION AR096649.1 GI:10025634
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 18)
AUTHORS Monia,B.P. and Cowser,L.M.
TITLE Antisense inhibition of EGR-1 expression
JOURNAL Patent: US 6008048-A 33 28-DEC-1999;
FEATURES Location/Qualifiers
source
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 294 CCTCCTCCTTCGTCTC 311
Db 18 CCACCTCCTTCCTCTC 1

RESULT 159
AR168816/c
LOCUS AR168816 18 bp DNA linear PAT 17-DEC-2001
DEFINITION Sequence 42 from patent US 6288042.
ACCESSION AR168816
VERSION AR168816.1 GI:17904932
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 18)
AUTHORS Bertin,J.
TITLE Nucleic acid molecules related to card-4L and CARD-4S
JOURNAL Patent: US 6340576-A 35 22-JAN-2002;
FEATURES Location/Qualifiers
source
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2731 CCTGGGACCTGCCCTCC 2748
Db 1 CCTGGTACTTGCCCTCC 18

REFERENCE 1 (bases 1 to 18)
AUTHORS Rando,R.F., Ojwaug,J.O., Hogan,M.E., Wallace,T.L. and Cossum,P.A.
TITLE Anti-viral guanosine-rich tetrad forming oligonucleotides
JOURNAL Patent: US 6288042-A 42 11-SEP-2001;
FEATURES Location/Qualifiers
source
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGTGGGG 223
Db 18 GGGGGGGGGGGGGGGG 1

RESULT 160
AR168817/c
LOCUS AR168817 18 bp DNA linear PAT 17-DEC-2001
DEFINITION Sequence 43 from patent US 6288042.
ACCESSION AR168817
VERSION AR168817.1 GI:17904933
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 18)
AUTHORS Rando,R.F., Ojwaug,J.O., Hogan,M.E., Wallace,T.L. and Cossum,P.A.
TITLE Anti-viral guanosine-rich tetrad forming oligonucleotides
JOURNAL Patent: US 6288042-A 43 11-SEP-2001;
FEATURES Location/Qualifiers
source
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGTGGGG 223
Db 18 GGGGGGGGGGGGGGGG 1

RESULT 161
AR183241
LOCUS AR183241 18 bp DNA linear PAT 20-APR-2002
DEFINITION Sequence 35 from patent US 6340576.
ACCESSION AR183241
VERSION AR183241.1 GI:20226834
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 18)
AUTHORS Bertin,J.
TITLE Nucleic acid molecules related to card-4L and CARD-4S
JOURNAL Patent: US 6340576-A 35 22-JAN-2002;
FEATURES Location/Qualifiers
source
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2731 CCTGGGACCTGCCCTCC 2748
Db 1 CCTGGTACTTGCCCTCC 18
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RESULT 162
AR196702/c
LOCUS          AR196702          18 bp      DNA
DEFINITION     Sequence 1167 from patent US 6350934.
ACCESSION      AR196702
VERSION        AR196702.1  GI:20246139
KEYWORDS       Unknown.
SOURCE         Unknown.
ORGANISM       Unclassified.
REFERENCE      1 (bases 1 to 18)
AUTHORS       Zwick,M.G., Edington,B.E., McSwiggen,J.A., Merlo,P,Ann.Owens.,
               Guo,L., Skokut,T.A., Young,S.A., Folkerts,O. and Merlo,D.J.
TITLE         Nucleic acid encoding delta-9 desaturase
JOURNAL       Patent: US 6350934-A 1167 26-FEB-2002;
FEATURES       Location/Qualifiers
               source
               1..18
               /organism="unknown"
               /mol_type="unassigned DNA"
Query Match    0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGCG 670
Db 18 GCTGCGCGCGCGCGCGCG 1

RESULT 163
AR196704/c
LOCUS          AR196704          18 bp      DNA
DEFINITION     Sequence 1169 from patent US 6350934.
ACCESSION      AR196704
VERSION        AR196704.1  GI:20246141
KEYWORDS       Unknown.
SOURCE         Unknown.
ORGANISM       Unclassified.
REFERENCE      1 (bases 1 to 18)
AUTHORS       Zwick,M.G., Edington,B.E., McSwiggen,J.A., Merlo,P,Ann.Owens.,
               Guo,L., Skokut,T.A., Young,S.A., Folkerts,O. and Merlo,D.J.
TITLE         Nucleic acid encoding delta-9 desaturase
JOURNAL       Patent: US 6350934-A 1169 26-FEB-2002;
FEATURES       Location/Qualifiers
               source
               1..18
               /organism="unknown"
               /mol_type="unassigned DNA"
Query Match    0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGCG 670
Db 18 GCTGCTGCGCGCGCGCGCG 1

RESULT 164
AR200285/c
LOCUS          AR200285          18 bp      DNA
DEFINITION     Sequence 42 from patent US 6355785.
ACCESSION      AR200285
VERSION        AR200285.1  GI:20250359
KEYWORDS       Unknown.
SOURCE         Unknown.
ORGANISM       Unclassified.
REFERENCE      1 (bases 1 to 18)
AUTHORS       Rando,R.F., Fennwald,S., Zendegeui,J.G., Ojwang,J.O., Hogan,M.E.,
               Pommier,Y. and Mazumder,A.
TITLE         Guanosine-rich oligonucleotide integrase inhibitors

JOURNAL       Patent: US 6355785-A 42 12-MAR-2002;
FEATURES       Location/Qualifiers
               source
               1..18
               /organism="unknown"
               /mol_type="unassigned DNA"
Query Match    0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGCG 670
Db 18 GCTGCTGCGCGCGCGCGCG 1

RESULT 165
AR200286/c
LOCUS          AR200286          18 bp      DNA
DEFINITION     Sequence 43 from patent US 6355785.
ACCESSION      AR200286
VERSION        AR200286.1  GI:20250360
KEYWORDS       Unknown.
SOURCE         Unknown.
ORGANISM       Unclassified.
REFERENCE      1 (bases 1 to 18)
AUTHORS       Rando,R.F., Fennwald,S., Zendegeui,J.G., Ojwang,J.O., Hogan,M.E.,
               Pommier,Y. and Mazumder,A.
TITLE         Guanosine-rich oligonucleotide integrase inhibitors
JOURNAL       Patent: US 6355785-A 43 12-MAR-2002;
FEATURES       Location/Qualifiers
               source
               1..18
               /organism="unknown"
               /mol_type="unassigned DNA"
Query Match    0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGG 223
Db 18 GGGGGGGGGGGGGGGGG 1

RESULT 166
AR205641/c
LOCUS          AR205641          18 bp      DNA
DEFINITION     Sequence 35 from patent US 6369196.
ACCESSION      AR205641
VERSION        AR205641.1  GI:21503275
KEYWORDS       Unknown.
SOURCE         Unknown.
ORGANISM       Unclassified.
REFERENCE      1 (bases 1 to 18)
AUTHORS       Bertin,J.
TITLE         Molecules of the card-related protein family and uses thereof
JOURNAL       Patent: US 6369196-A 35 09-APR-2002;
FEATURES       Location/Qualifiers
               source
               1..18
               /organism="unknown"
               /mol_type="unassigned DNA"
Query Match    0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGG 223
Db 18 GGGGGGGGGGGGGGGGG 1

RESULT 167
AR205641/c
LOCUS          AR205641          18 bp      DNA
DEFINITION     Sequence 35 from patent US 6369196.
ACCESSION      AR205641
VERSION        AR205641.1  GI:21503275
KEYWORDS       Unknown.
SOURCE         Unknown.
ORGANISM       Unclassified.
REFERENCE      1 (bases 1 to 18)
AUTHORS       Bertin,J.
TITLE         Molecules of the card-related protein family and uses thereof
JOURNAL       Patent: US 6369196-A 35 09-APR-2002;
FEATURES       Location/Qualifiers
               source
               1..18
               /organism="unknown"
               /mol_type="unassigned DNA"
Query Match    0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2731 CCTGGGACCTGCCCTCC 2748
Db 1 CCTGGTACTTGGCCCTCC 18

RESULT 167
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AR215487  
LOCUS AR215487 18 bp DNA linear PAT 25-SEP-2002  
DEFINITION Sequence 35 from patent US 6410323.  
ACCESSION AR215487  
VERSION AR215487.1 GI:23313743  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 18)  
AUTHORS Roberts,M.L. and Cowseert,L.M.  
TITLE Antisense modulation of human Rho family gene expression  
JOURNAL Patent: US 6410323-A 35 25-JUN-2002;  
ISIS Pharmaceuticals, Inc.; Carlsbad, CA  
FEATURES  
source  
1..18  
/organism="unknown"  
/mol\_type="genomic DNA"  
Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+02;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 175 CAAAGGCCCACTCTTCC 192  
Db 1 CACAAAGCCCACTCTTACC 18  
RESULT 168  
LOCUS AR241243 18 bp DNA linear PAT 20-DEC-2002  
DEFINITION Sequence 35 from patent US 6469140.  
ACCESSION AR241243  
VERSION AR241243.1 GI:27286619  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 18)  
AUTHORS Bertin,J.  
TITLE Molecules of the card-related protein family and uses thereof  
JOURNAL Patent: US 6469140-A 35 22-OCT-2002;  
Millennium Pharmaceuticals, Inc.; Cambridge, MA;  
WOX;  
FEATURES  
source  
1..18  
/organism="unknown"  
/mol\_type="genomic DNA"  
Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+02;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 2731 CCTGGGACCTGCCCTCC 2748  
Db 1 CCTGGTACTTGCCCTCC 18  
RESULT 169  
LOCUS AR256259 18 bp DNA linear PAT 20-DEC-2002  
DEFINITION Sequence 35 from patent US 6482933.  
ACCESSION AR256259  
VERSION AR256259.1 GI:27305682  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 18)  
AUTHORS Bertin,J.  
TITLE Molecules of the card-related protein family and uses thereof  
JOURNAL Patent: US 6482933-A 35 19-NOV-2002;  
Millennium Pharmaceuticals, Inc.; Cambridge, MA;

WOX;  
FEATURES  
source  
1..18  
/organism="unknown"  
/mol\_type="genomic DNA"  
Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+02;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 2731 CCTGGGACCTGCCCTCC 2748  
Db 1 CCTGGTACTTGCCCTCC 18  
RESULT 170  
LOCUS AR262417/c 18 bp DNA linear PAT 29-JAN-2003  
DEFINITION Sequence 42 from patent US 6323185.  
ACCESSION AR262417  
VERSION AR262417.1 GI:28073848  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 18)  
AUTHORS Rando,R.F., Fennwald,S., Zendequi,J.G., Ojwang,J.O. and Hogan,M.E.  
TITLE Anti-viral guanosine-rich oligonucleotides and method of treating HIV  
JOURNAL Patent: US 6323185-A 42 27-NOV-2001;  
The United States of America as represented by the Department of Health and Human Services; Washington, DC  
FEATURES  
source  
1..18  
/organism="unknown"  
/mol\_type="genomic DNA"  
Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+02;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 206 GGGGGGGTGGGTGGGG 223  
Db 18 GGGGGGGGGGGGGGGG 1  
RESULT 171  
LOCUS AR262418/c 18 bp DNA linear PAT 29-JAN-2003  
DEFINITION Sequence 43 from patent US 6323185.  
ACCESSION AR262418  
VERSION AR262418.1 GI:28073849  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 18)  
AUTHORS Rando,R.F., Fennwald,S., Zendequi,J.G., Ojwang,J.O. and Hogan,M.E.  
TITLE Anti-viral guanosine-rich oligonucleotides and method of treating HIV  
JOURNAL Patent: US 6323185-A 43 27-NOV-2001;  
The United States of America as represented by the Department of Health and Human Services; Washington, DC  
FEATURES  
source  
1..18  
/organism="unknown"  
/mol\_type="genomic DNA"  
Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+02;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 206 GGGGGGGTGGGTGGGG 223  
Db 18 GGGGGGGGGGGGGGGG 223



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Db 18 GGGGGGGGGGGGGGGGG 1
|||||
RESULT 172
AR391606 AR391606 18 bp DNA linear PAT 18-DEC-2003
DEFINITION Sequence 35 from patent US 6613521.
ACCESSION AR391606
VERSION AR391606.1 GI:40115156
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 18)
AUTHORS Bertin,J.
TITLE Molecules of the card-related protein family and uses thereof
JOURNAL Patent: US 6613521-A 35 02-SEP-2003;
Millennium Pharmaceuticals, Inc.; Cambridge, MA;
WOX;
FEATURES
source Location/Qualifiers
1..18
/organism="unknown"
/mol_type="genomic DNA"
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 2731 CCTGGGACCTGCCCTCC 2748
|||||
Db 1 CCTGGTACTGCCCTCC 18
|||||
RESULT 173
AR431114 AR431114 18 bp DNA linear PAT 18-DEC-2003
DEFINITION Sequence 30 from patent US 6649749.
ACCESSION AR431114
VERSION AR431114.1 GI:40193012
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 18)
AUTHORS McDonough,S.H., Ryder,T.B. and Yang,Y.
TITLE Detection of human immunodeficiency virus type 1
JOURNAL Patent: US 6649749-A 30 18-NOV-2003;
Gen-Probe Incorporated; San Diego, CA
FEATURES
source Location/Qualifiers
1..18
/organism="unknown"
/mol_type="genomic DNA"
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1575 TGTGCTCATCTTTGCCAC 1592
|||||
Db 1 TGTGCCCTTCTTTGCCAC 18
|||||
RESULT 174
AR431194 AR431194 18 bp DNA linear PAT 18-DEC-2003
DEFINITION Sequence 110 from patent US 6649749.
ACCESSION AR431194
VERSION AR431194.1 GI:40193092
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 18)
AUTHORS Barbera-Guillem,E., Nelson,M.B. and Castro,S.L.
TITLE Polynucleotide strands operably linked to nanocrystals
functionalized to be water soluble
JOURNAL Patent: US 6828142-A 3 07-DEC-2004;
Bio-Pixel Ltd.; Westerville, OH
FEATURES
source Location/Qualifiers
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/organism="unknown"
/mol_type="genomic DNA"
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1575 TGTGCTCATCTTTGCCAC 1592
|||||
Db 1 TGTGCCCTTCTTTGCCAC 18
|||||
REFERENCE 1 (bases 1 to 18)
AUTHORS McDonough,S.H., Ryder,T.B. and Yang,Y.
TITLE Detection of human immunodeficiency virus type 1
JOURNAL Patent: US 6649749-A 110 18-NOV-2003;
Gen-Probe Incorporated; San Diego, CA
FEATURES
source Location/Qualifiers
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/organism="unknown"
/mol_type="genomic DNA"
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1575 TGTGCTCATCTTTGCCAC 1592
|||||
Db 1 TGTGCCCTTCTTTGCCAC 18
|||||
RESULT 175
AR612302 AR612302 18 bp DNA linear PAT 15-DEC-2004
DEFINITION Sequence 24 from patent US 6825339.
ACCESSION AR612302
VERSION AR612302.1 GI:56667956
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 18)
AUTHORS Chatelain,F. and Kumarev,V.
TITLE Apparatus for preparing polynucleotides on a solid support
JOURNAL Patent: US 6825339-A 24 30-NOV-2004;
Prologo, LLC; Boulder, CO
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source Location/Qualifiers
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/organism="unknown"
/mol_type="genomic DNA"
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 206 GGGGGGGTGGGGTGGGG 223
|||||
Db 18 GGGGGGGGGGGGGGGGG 1
|||||
RESULT 176
AR613539 AR613539 18 bp DNA linear PAT 15-DEC-2004
DEFINITION Sequence 3 from patent US 6828142.
ACCESSION AR613539
VERSION AR613539.1 GI:56669581
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 18)
AUTHORS Barbera-Guillem,E., Nelson,M.B. and Castro,S.L.
TITLE Polynucleotide strands operably linked to nanocrystals
functionalized to be water soluble
JOURNAL Patent: US 6828142-A 3 07-DEC-2004;
Bio-Pixel Ltd.; Westerville, OH
FEATURES
source Location/Qualifiers
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/organism="unknown"
/mol_type="genomic DNA"
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1575 TGTGCTCATCTTTGCCAC 1592
|||||
Db 1 TGTGCCCTTCTTTGCCAC 18
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QY 206 GGGGGGTGGGGTGGGG 223
Db 1 GGGGGGGGGGGGGGGGG 18

RESULT 177
LOCUS AR647109 18 bp DNA linear PAT 20-APR-2005
DEFINITION Sequence 35 from patent US 6869775.
ACCESSION AR647109
VERSION AR647109.1 GI:62785877
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 18)
AUTHORS Bertin,J.
TITLE Card related protein and uses thereof
JOURNAL Patent: US 6869775-A 35 22-MAR-2005;
Millennium Pharmaceuticals, Inc.; Cambridge, MA;
WOX;

FEATURES
source
Location/Qualifiers
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/mol_type="genomic DNA"

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2731 CCTGGGACCTGCCCTCC 2748
Db 1 CCTGGTACTTGGCCCTCC 18

RESULT 178
LOCUS AR648018/c 18 bp DNA linear PAT 20-APR-2005
DEFINITION Sequence 4 from patent US 6872521.
ACCESSION AR648018
VERSION AR648018.1 GI:62787404
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 18)
AUTHORS Boyce-Jacino,M.T., Addeleton,M.B. and Head,S.R.
TITLE Polymerase signaling assay
JOURNAL Patent: US 6872521-A 4 29-MAR-2005;
Beckman Coulter, Inc.; Fullerton, CA

FEATURES
source
Location/Qualifiers
1..18
/mol_type="genomic DNA"

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGGTGGGG 223
Db 18 GGGGGGGGGGGGGGGGG 1

RESULT 179
LOCUS AX003668/c 18 bp DNA linear PAT 24-AUG-2000
DEFINITION Sequence 26 from Patent WO927092.
ACCESSION AX003668
VERSION AX003668.1 GI:9927457
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct

other sequences; artificial sequences.
1
REFERENCE 1
AUTHORS Liu,N. and Mueller,R.
TITLE Purified transcription factor cdf-1 and its use
JOURNAL Patent: WO 9927092-A 26 03-JUN-1999;
LIU NINGSHU (DE); MUELLER ROLF (DE)

FEATURES
source
Location/Qualifiers
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/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="Mutant construct"

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1118 CCATTACCACCTTCTGCC 1135
Db 18 CCATGACCACCTTCCGCC 1

RESULT 180
LOCUS AX047272/c 18 bp DNA linear PAT 15-DEC-2000
DEFINITION Sequence 22 from Patent WO0068422.
ACCESSION AX047272
VERSION AX047272.1 GI:11876552
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
1
REFERENCE 1
AUTHORS Muehlegger,K., Angerer,B., Seela,F., Ankenbauer,W., Augustin,M.,
Gumbiowski,K. and Zulauf,M.
TITLE High density labeling of dna with modified or chromophore carrying
nucleotides and dna polymerases used
JOURNAL Patent: WO 0068422-A 22 16-NOV-2000;
Roche Diagnostics GmbH (DE)

FEATURES
source
Location/Qualifiers
1..18
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="second fragment of SEQ ID NO: 6"

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGGTGGGG 223
Db 18 GGGGGGGGGGGGGGGGG 1

RESULT 181
LOCUS AX047274 18 bp DNA linear PAT 15-DEC-2000
DEFINITION Sequence 24 from Patent WO0068422.
ACCESSION AX047274
VERSION AX047274.1 GI:11876554
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
1
REFERENCE 1
AUTHORS Muehlegger,K., Angerer,B., Seela,F., Ankenbauer,W., Augustin,M.,
Gumbiowski,K. and Zulauf,M.
TITLE High density labeling of dna with modified or chromophore carrying
nucleotides and dna polymerases used
JOURNAL Patent: WO 0068422-A 24 16-NOV-2000;
Roche Diagnostics GmbH (DE)

FEATURES
source
Location/Qualifiers
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source
1..18
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="second fragment of SEQ ID NO: 6"

Query Match
Best Local Similarity 0.5%; Score 14.8; DB 1; Length 18;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGGTGGGG 223
DB 1 GGGGGGGGGGGGGGGGG 18

RESULT 182
AX082233
LOCUS AX082233 18 bp DNA linear PAT 27-FEB-2001
DEFINITION Sequence 35 from Patent WO0100826.
ACCESSION AX082233
VERSION AX082233.1 GI:13170996
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
REFERENCE
AUTHORS Bertin,J.
TITLE Novel molecules of the card-related protein family and uses thereof
JOURNAL Patent: WO 0100826-A 35 04-JAN-2001;
MILLENNIUM Pharmaceuticals, Inc. (US)
FEATURES
source
1..18
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match
Best Local Similarity 0.5%; Score 14.8; DB 1; Length 18;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2731 CTGGGACCTGCCCTCC 2748
DB 1 CTGGTACTTGCCCTCC 18

RESULT 183
AX118563
LOCUS AX118563 18 bp DNA linear PAT 11-MAY-2001
DEFINITION Sequence 3686 from Patent WO0129262.
ACCESSION AX118563
VERSION AX118563.1 GI:14035514
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE
AUTHORS Picoult-Newburg,L. and Pohl,M.
TITLE Genotyping reagents, kits and methods of use thereof
JOURNAL Patent: WO 0129262-A 3686 26-APR-2001;
Orchid Biosciences, Inc. (US)
FEATURES
source
1..18
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="Primer"

Query Match
Best Local Similarity 0.5%; Score 14.8; DB 1; Length 18;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

source
1..18
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="second fragment of SEQ ID NO: 6"

Query Match
Best Local Similarity 88.9%; Pred. No. 1.6e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 15 CTTCCTGGGTGGGGG 32
DB 1 CTTCCTGGGTGGGGG 18

RESULT 184
AX599674
LOCUS AX599674 18 bp DNA linear PAT 14-FEB-2003
DEFINITION Sequence 1014 from Patent WO02077272.
ACCESSION AX599674
VERSION AX599674.1 GI:28399822
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE
AUTHORS Berlin,K., Braun,A., Distler,J., Guetig,D., Howe,A., Mueller,J.,
Olak,A., Piepenbrock,C., Adorjan,P., Grabs,G., Lesche,R., Leu,E.,
Lewin,A., Lipscher,E., Maier,S., Model,F., Mueller,V., Otto,T.,
Pellet,C. and Ziebarth,H.
TITLE Methods and nucleic acids for the analysis of hematopoietic cell
proliferative disorders
JOURNAL Patent: WO 02077272-A 1014 03-OCT-2002;
EpiGenomics AG (DE)
FEATURES
source
1..18
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="Detection oligonucleotide for L-MYC"

Query Match
Best Local Similarity 0.5%; Score 14.8; DB 1; Length 18;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 210 GGTGGGGTGGGGGGGAG 227
DB 1 GGTGGGGTGGGGGAGTAG 18

RESULT 185
AX828907
LOCUS AX828907 18 bp DNA linear PAT 12-DEC-2003
DEFINITION Sequence 30 from Patent EP1344837.
ACCESSION AX828907
VERSION AX828907.1 GI:39838745
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE
AUTHORS McDonough,S.H., Ryder,T.B. and Yand,Y.
TITLE Detection of human immunodeficiency virus type 1
JOURNAL Patent: EP 1344837-A 30 17-SEP-2003;
Gen-Probe Incorporated (US)
FEATURES
source
1..18
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="Amplification oligonucleotide"

Query Match
Best Local Similarity 0.5%; Score 14.8; DB 1; Length 18;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1575 TGTGCTCATCTTCCAC 1592
DB 1 TGTGCTCATCTTCCAC 18

RESULT 186
AX828987

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LOCUS       AX828987               18 bp    RNA          linear          PAT 12-DEC-2003
DEFINITION   Sequence 110 from Patent EPI344837.
ACCESSION   AX828987
VERSION     AX828987.1  GI:39838825
SOURCE      synthetic construct
            synthetic construct
            other sequences; artificial sequences.
ORGANISM    1
REFERENCE   Mcdonough, S.H., Ryder, T.B. and Yand, Y.
AUTHORS     Detection of human immunodeficiency virus type 1
TITLE       Patent: EP 1344837-A 110 17-SEP-2003;
JOURNAL     Gen-Probe Incorporated (US)
FEATURES    Location/Qualifiers
             source
               1..18
               /organism="synthetic construct"
               /mol_type="unassigned RNA"
               /db_xref="taxon:32630"
               /note="RNA equivalent to amplification oligonucleotide"

Query Match      0.5%;  Score 14.8;  DB 1;  Length 18;
Best Local Similarity 88.9%;  Pred. No. 1.6e+02;
Matches 16;  Conservative 0;  Mismatches 2;  Indels 0;  Gaps 0;

QY      1575  TGTGCTCATCTTGGCCAC 1592
Db      1      TGTGCCCTCTTTGCCAC 18

RESULT 187
BD015322
LOCUS       BD015322               18 bp    DNA          linear          PAT 27-AUG-2002
DEFINITION   Novel protein and polynucleotide encoding the same.
ACCESSION   BD015322
VERSION     BD015322.1  GI:22556460
KEYWORDS    JP 2001211887-A/3.
SOURCE      synthetic construct
            synthetic construct
            other sequences; artificial sequences.
ORGANISM    1 (bases 1 to 18)
REFERENCE   Mukai, K.
AUTHORS     Novel protein and polynucleotide encoding the same
TITLE       Patent: JP 2001211887-A 3 07-AUG-2001;
JOURNAL     KEIO UNIV
COMMENT     OS Artificial Sequence
            PN JP 2001211887-A/3
            PD 07-AUG-2001
            PF 07-FEB-2000 JP 2000029143
            PI KUNIAKI MUKAI
            PC C12N15/09,A61K31/7088,A61K39/02,A61K48/00,A61P35/00,A61P35/04,
            PC A61P43/00,
            PC C07K14/47,C12N1/15,C12N1/19,C12N1/21,C12N5/10,C12P21/02,C12N15/00,C12N15/00,
            CC Description of Artificial Sequence: synthetic DNA FH Key
            Location/Qualifiers
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              /organism="synthetic construct"
              /mol_type="genomic DNA"
              /db_xref="taxon:32630"

Query Match      0.5%;  Score 14.8;  DB 1;  Length 18;
Best Local Similarity 88.9%;  Pred. No. 1.6e+02;
Matches 16;  Conservative 0;  Mismatches 2;  Indels 0;  Gaps 0;

QY      927  CGAGGCTGAAGAGATGA 944
Db      1      CGAGGCTGAAGAGATGA 18

RESULT 188
BD124005
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LOCUS       BD124005               18 bp    DNA          linear          PAT 18-SEP-2002
DEFINITION   Novel molecule of CARD-associated protein family and utilization
            thereof.
ACCESSION   BD124005
VERSION     BD124005.1  GI:23218950
KEYWORDS    JP 2002502590-A/8.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
            Hominiidae; Homo.
REFERENCE   1 (bases 1 to 18)
AUTHORS     John, B.
TITLE       Novel molecule of CARD-associated protein family and utilization
JOURNAL     Patent: JP 2002502590-A 8 29-JAN-2002;
            MILLENNIUM PHARMACEUTICALS INC
COMMENT     OS Homo sapiens (human)
            PN JP 2002502590-A/8
            PD 29-JAN-2002
            PF 05-FEB-1999 JP 2000530530
            PR 06-FEB-1998 US 09/019 942, 17-JUN-1998 US 09/099 041 PR
            OS-DEC-1998 US 09/207 359
            PI BERTIN JOHN
            PC C12N15/09,C07K14/47,C07K16/18,C12N1/15,C12N1/19,C12N1/21,C12N5/00,
            PC C12N5/00
            CC Novel molecule of CARD-associated protein family and CC
            utilization thereof
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            FT source 1..18
            FT /organism="Homo sapiens"
            FT /mol_type="genomic DNA"
            FT /db_xref="taxon:9606"

Query Match      0.5%;  Score 14.8;  DB 1;  Length 18;
Best Local Similarity 88.9%;  Pred. No. 1.6e+02;
Matches 16;  Conservative 0;  Mismatches 2;  Indels 0;  Gaps 0;

QY      2731  CCTGGGACCTGCCCCCTCC 2748
Db      1      CCTGGTACTTGCCCCCTCC 18

RESULT 189
BD217401
LOCUS       BD217401               18 bp    DNA          linear          PAT 17-JUL-2003
DEFINITION   Antisense modulation of TNFR1 expression.
ACCESSION   BD217401
VERSION     BD217401.1  GI:33027171
KEYWORDS    JP 2002519015-A/24.
SOURCE      unidentified
            unidentified
            unclassified.
ORGANISM    1 (bases 1 to 18)
REFERENCE   Baker, B.F. and Cowser, L.M.
AUTHORS     Antisense modulation of TNFR1 expression
TITLE       Patent: JP 2002519015-A 24 02-JUL-2002;
JOURNAL     ISIS PHARMACEUTICALS INC
COMMENT     OS Unidentified
            PN JP 2002519015-A/24
            PD 02-JUL-2002
            PF 17-JUN-1999 JP 2000557265
            PR 26-JUN-1998 US 09/106038
            PI BRENDA F BAKER, LEX M COWSERT
            PC C12N15/09,A61K31/7105,A61K31/711,A61K48/00,A61P29/00,A61P43/00,
            PC C12Q1/68,
            PC C12N15/00
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CC Strandedness: Single;
CC Topology: Linear;
CC Antisense modulation of TNFR1 expression
FH Key Location/Qualifiers
FT source 1..18 /organism='Unidentified'.
FT Location/Qualifiers
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source
1..18
/organism='unidentified'
/mol_type='genomic DNA'
/db_xref='taxon:32644'

Query Match
Best Local Similarity 0.5%; Score 14.8; DB 1; Length 18;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 645 CAGCAGCGGCAGCGGC 662
DB 1 CACGAGCGGCAGCGAG 18

RESULT 190
BD238193/c 18 bp DNA linear PAT 17-JUL-2003
LOCUS Accelerated identification of polymorphism of single nucleotide in
DEFINITION genome sequencing and alignment of clones.
ACCESSION BD238193
VERSION BD238193.1 GI:33047963
KEYWORDS JP 2002534098-A/28.
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1 (bases 1 to 18)
AUTHORS Barany,F., Liu,J., Kirk,B.W., Zirvi,M., Gerry,N.P. and Paty,P.B.
TITLE Accelerated identification of polymorphism of single nucleotide in
JOURNAL genome sequencing and alignment of clones
Patent: JP 2002534098-A 28 15-OCT-2002;
CORNELL RESEARCH FOUNDATION INC, SLOAN KETTERING INSTITUTE FOR
CANCER RESEARCH
COMMENT OS Artificial Sequence
PN JP 2002534098-A/28
PD 15-OCT-2002
PF 05-JAN-2000 JP 2000592447
PR 06-JAN-1999 US 60/114881
PI FRANCIS BARANY, JIANZHAO LIU, BRIAN W KIRK, MONIB ZIRVI, NORMAN P
PI GERRY,
PI PHILIP B PATY
PC C12N15/09, C12Q1/68, G01N33/53, G01N33/566, G01N37/00, G01N37/00//
PC G01N33/50,
PC C12N15/00
CC Description of Artificial Sequence: probe/primer FH Key
Location/Qualifiers
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FT /organism='Artificial Sequence'.
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source
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/organism='synthetic construct'
/mol_type='genomic DNA'
/db_xref='taxon:32630'

Query Match
Best Local Similarity 0.5%; Score 14.8; DB 1; Length 18;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGGC 669
DB 1 GTCAGCAGCGCGCGGC 1

RESULT 191
I27810/c 18 bp DNA linear PAT 06-FEB-1997
LOCUS Accelerated identification of polymorphism of single nucleotide in
DEFINITION genome sequencing and alignment of clones.
ACCESSION I27810
VERSION I27810.1 GI:1818586
KEYWORDS US 5567604-A/28.
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 18)
AUTHORS Rando,R.F., Fennewald,S., Zengdegi,J.G. and Ojwang,J.O.
TITLE Anti-viral guanosine-rich oligonucleotides
JOURNAL Patent: US 5567604-A 42 22-OCT-1996;
FEATURES Location/Qualifiers
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1..18
/organism='unknown'
/mol_type='unassigned DNA'

Query Match
Best Local Similarity 0.5%; Score 14.8; DB 1; Length 18;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGGTGGGG 223
DB 18 GGGGGGGGGGGGGGGGG 1

RESULT 192
I27811/c 18 bp DNA linear PAT 06-FEB-1997
LOCUS Accelerated identification of polymorphism of single nucleotide in
DEFINITION genome sequencing and alignment of clones.
ACCESSION I27811
VERSION I27811.1 GI:1818587
KEYWORDS US 5567604-A 43 22-OCT-1996;
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 18)
AUTHORS Rando,R.F., Fennewald,S., Zengdegi,J.G. and Ojwang,J.O.
TITLE Anti-viral guanosine-rich oligonucleotides
JOURNAL Patent: US 5567604-A 43 22-OCT-1996;
FEATURES Location/Qualifiers
source
1..18
/organism='unknown'
/mol_type='unassigned DNA'

Query Match
Best Local Similarity 0.5%; Score 14.8; DB 1; Length 18;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGGTGGGG 223
DB 18 GGGGGGGGGGGGGGGGG 1

RESULT 193
I82928/c 18 bp DNA linear PAT 10-JUN-1998
LOCUS Accelerated identification of polymorphism of single nucleotide in
DEFINITION genome sequencing and alignment of clones.
ACCESSION I82928
VERSION I82928.1 GI:3211225
KEYWORDS US 5712385-A 30 27-JAN-1998;
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 18)
AUTHORS McDonough,S.H., Ryder,T.B. and Yang,Y.
TITLE Detection of human immunodeficiency virus type 1
JOURNAL Patent: US 5712385-A 30 27-JAN-1998;
FEATURES Location/Qualifiers
source
1..18
/organism='unknown'
/mol_type='unassigned DNA'

Query Match
Best Local Similarity 0.5%; Score 14.8; DB 1; Length 18;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1575 TGTGCTCATCTTTGCCAC 1592  
|||||  
Db 1 TGTGCCCTTCTTTGCCAC 18

RESULT 194

I83008 18 bp DNA linear PAT 10-JUN-1998  
LOCUS  
DEFINITION Sequence 110 from patent US 5712385.  
ACCESSION I83008  
VERSION I83008.1 GI:3211305  
KEYWORDS  
SOURCE Unknown.  
ORGANISM Unknown.  
Unclassified.  
REFERENCE 1 (bases 1 to 18)  
AUTHORS McDonough, S.H., Ryder, T.B. and Yang, Y.  
TITLE Detection of human immunodeficiency virus type 1  
JOURNAL Patent: US 5712385-A 110 27-JAN-1998;  
FEATURES  
Location/Qualifiers  
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source  
/organism="unknown"  
/mol\_type="unassigned DNA"

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+02;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1575 TGTGCTCATCTTTGCCAC 1592  
|||||  
Db 1 TGTGCCCTTCTTTGCCAC 18

Search completed: February 7, 2006, 14:31:48  
Job time : 7 secs



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c 109	16.8	c 182	Angiogenesis inhib	182	0.6	19	1	ADP49277
c 110	16.8	c 183	Angiogenesis inhib	183	0.6	19	1	ADP49691
c 111	16.8	c 184	Angiogenesis inhib	184	0.6	45	1	AAZ11949
c 112	16.8	c 185	Angiogenesis inhib	185	15.8	0.6	19	AAQ52159
c 113	16.8	c 186	Immunostimulatory	186	15.8	0.6	19	AA515289
c 114	16.8	c 187	Cancer medicament	187	15.8	0.6	19	ADP29386
c 115	16.8	c 188	Gastric ulcer treat	188	15.8	0.6	19	ADP29549
c 116	16.8	c 189	Immunostimulatory	189	15.8	0.6	19	ADP54100
c 117	16.8	c 190	Immunostimulatory	190	15.8	0.6	19	ADP54436
c 118	16.8	c 191	Immunostimulatory	191	15.8	0.6	19	ADJ66170
c 119	16.8	c 192	Immunostimulatory	192	15.8	0.6	19	ADJ66298
c 120	16.8	c 193	Immunostimulatory	193	15.8	0.6	19	ADJ97270
c 121	16.8	c 194	Antisense oligo Cg	194	15.8	0.6	19	ADL33847
c 122	16.8	c 195	Immunostimulatory	195	15.8	0.6	19	ADU64527
c 123	16.8	c 196	Immunostimulatory	196	15.8	0.6	19	ADU64690
c 124	16.8	c 197	Immunostimulatory	197	15.8	0.6	19	ADZ78556
c 125	16.8	c 198	Immunostimulatory	198	15.8	0.6	19	ADZ78631
c 126	16.8	c 199	Immunostimulatory	199	15.8	0.6	19	ADZ87813
c 127	16.8	c 200	Immunostimulatory	200	15.8	0.6	19	ADZ87987
c 128	16.8	c 201	Nucleic acid detec	201	15.8	0.6	19	AEA34391
c 129	16.8	c 202	Human volatge gate	202	15.8	0.6	19	AEA44315
c 130	16.8	c 203	Chimeric phosphoro	203	15.8	0.6	19	AE43393
c 131	16.8	c 204	Immunostimulatory	204	15.8	0.6	19	AE433567
c 132	16.8	c 205	Poly-C primer, SEQ	205	15.8	0.6	80	ADM95345
c 133	16.8	c 206	DNA molecule prepa	206	15.4	0.5	17	AAQ68243
c 134	16.8	c 207	Novel immunostimul	207	15.4	0.5	17	AAQ68444
c 135	16.8	c 208	Allergic response	208	15.4	0.5	17	AAQ68444
c 136	16.8	c 209	Allergic response	209	15.4	0.5	17	AAQ68444
c 137	16.8	c 210	Allergic response	210	15.4	0.5	17	AAQ68444
c 138	16.8	c 211	Allergic response	211	15.4	0.5	17	AAQ68444
c 139	16.8	c 212	Allergic response	212	15.4	0.5	17	AAQ68444
c 140	16.8	c 213	Allergic response	213	15.4	0.5	17	AAQ68444
c 141	16.8	c 214	Human cyclin-depen	214	15.4	0.5	18	AAQ68444
c 142	16.8	c 215	Oligonucleotide 10	215	15.4	0.5	18	AAQ68444
c 143	16.8	c 216	Oligonucleotide 10	216	15.4	0.5	18	AAQ68444
c 144	16.8	c 217	Oligonucleotide pr	217	15.4	0.5	18	AAQ68444
c 145	16.8	c 218	Synthetic oligonuc	218	15.4	0.5	18	AAQ68444
c 146	16.8	c 219	Chromosome 11 (loc	219	15.4	0.5	18	AAQ68444
c 147	16.8	c 220	Human polynorphic	220	15.4	0.5	18	AAQ68444
c 148	16.8	c 221	Protein kinase inh	221	15.4	0.5	18	AAQ68444
c 149	16.8	c 222	5' PCR primer used	222	15.4	0.5	18	AAQ68444
c 150	16.8	c 223	Protypic blocking	223	15.4	0.5	18	AAQ68444
c 151	16.8	c 224	MAb1-10F-MS anal	224	15.4	0.5	18	AAQ68444
c 152	16.8	c 225	Hepatitis C virus	225	15.4	0.5	18	AAQ68444
c 153	16.8	c 226	RT-PCR primer used	226	15.4	0.5	18	AAQ68444
c 154	16.8	c 227	Human secreted pro	227	15.4	0.5	18	AAQ68444
c 155	16.8	c 228	Huntington gene CA	228	15.4	0.5	18	AAQ68444
c 156	16.8	c 229	Variant 4b oligonu	229	15.4	0.5	18	AAQ68444
c 157	16.8	c 230	Nucleotide-angio	230	15.4	0.5	18	AAQ68444
c 158	16.8	c 231	Human Smad6 antise	231	15.4	0.5	18	AAQ68444
c 159	16.8	c 232	Human BNO1 gene ex	232	15.4	0.5	18	AAQ68444
c 160	16.8	c 233	Human histone deac	233	15.4	0.5	18	AAQ68444
c 161	16.8	c 234	Human HDAC-2 PCR p	234	15.4	0.5	18	AAQ68444
c 162	16.8	c 235	Human HDAC-2 antis	235	15.4	0.5	18	AAQ68444
c 163	16.8	c 236	Antisense oligo, t	236	15.4	0.5	18	AAQ68444
c 164	16.8	c 237	Human APC primer #	237	15.4	0.5	18	AAQ68444
c 165	16.8	c 238	Human calmodulin 2	238	15.4	0.5	19	AAQ68444
c 166	16.8	c 239	Mouse C/EBP beta p	239	15.4	0.5	19	AAQ68444
c 167	16.8	c 240	Human casein kinas	240	15.4	0.5	19	AAQ68444
c 168	16.8	c 241	Human oligonucleot	241	15.4	0.5	19	AAQ68444
c 169	16.8	c 242	Variant detecting	242	15.4	0.5	19	AAQ68444
c 170	16.8	c 243	Chimeric phosphoro	243	15.4	0.5	19	AAQ68444
c 171	16.8	c 244	Chimeric phosphoro	244	15.4	0.5	19	AAQ68444
c 172	16.8	c 245	Artificially synth	245	15.4	0.5	19	AAQ68444
c 173	16.8	c 246	Human androgen rec	246	15.4	0.5	19	AAQ68444
c 174	16.8	c 247	BetaGlc Linker 2.	247	15.4	0.5	19	AAQ68444
c 175	16.8	c 248	Human K-Ras DNazym	248	15.4	0.5	19	AAQ68444
c 176	16.8	c 249	Human K-Ras DNazym	249	15.4	0.5	19	AAQ68444
c 177	16.8	c 250	Human K-Ras substr	250	15.4	0.5	19	AAQ68444
c 178	16.8	c 251	Human K-Ras substr	251	15.4	0.5	19	AAQ68444
c 179	16.8	c 252	Steroidogenesis ac	252	15.4	0.5	19	AAQ68444

RESULT 1  
ABN31763  
ID ABN31763 standard; DNA; 65 BP.  
XX

## ALIGNMENTS

LRP5 exon primer 5	19	1	AAV85752
LRP5 SNP primer 57	19	1	AAV85830
Human BCL2 siNA up	19	1	ADP49277
Human BCL2 siNA up	19	1	ADP49691
Human potassium ch	45	1	AAZ11949
Colon carcinoma sp	19	1	AAQ52159
Mouse IL-10 PCR pr	19	1	AA515289
Mitogen activated	19	1	ADP29386
Mitogen activated	19	1	ADP29549
Human GAB2 short i	19	1	ADP54100
Human GAB2 short i	19	1	ADP54436
Human TGFB-R trans	19	1	ADJ66170
Human TGFB-R siNA	19	1	ADJ66298
Human VEGF DNA seq	19	1	ADJ97270
Oligo #1 for micro	19	1	ADL33847
Human MAP kinase 1	19	1	ADU64527
Human MAP kinase 1	19	1	ADU64690
K-Ras 2 siRNA targ	19	1	ADZ78556
K-Ras 2 siRNA targ	19	1	ADZ78631
Early growth respo	19	1	ADZ87813
Early growth respo	19	1	ADZ87987
Human TRPM7 target	19	1	AEA34391
Human TRPM7 lower	19	1	AEA44315
Novel human Egr-1	19	1	AE43393
Novel human Egr-1	19	1	AE433567
Rat antisense olig	80	1	ADM95345
Triple helix formi	17	1	AAQ68243
Human c-myb hamme	17	1	AAQ68444
Oligomer purified	17	1	AAQ68444
WO9513834 oligonuc	17	1	AAQ68444
Rabbit stromelysin	17	1	AAQ68444
Rabbit stromelysin	17	1	AAQ68444
Oligomer having re	17	1	AAQ68444
Human CpG site pro	17	1	AAQ68444
PCR primer G-R use	18	1	AAQ68444
Simple sequence re	18	1	AAQ68444
Mouse IL-5 hamme	18	1	AAQ68444
PCR primer G-R use	18	1	AAQ68444
Delta-9 desaturase	18	1	AAQ68444
Murine Sox3 gene P	18	1	AAQ68444
Antisense inhibiti	18	1	AAQ68444
Human microsatelli	18	1	AAQ68444
Primer of the inve	18	1	AAQ68444
Synthetic leader s	18	1	AAQ68444
Synthetic leader s	18	1	AAQ68444
Synthetic leader s	18	1	AAQ68444
Synthetic leader s	18	1	AAQ68444
Synthetic leader s	18	1	AAQ68444
Synthetic leader s	18	1	AAQ68444
Synthetic leader s	18	1	AAQ68444
Synthetic leader s	18	1	AAQ68444
Synthetic leader s	18	1	AAQ68444
Extend primer 25 u	18	1	AAQ68444
Protein labelling	18	1	AAQ68444
Extend primer 49 u	18	1	AAQ68444
Human ABL1-targete	19	1	AAQ68444
Human ABL1-targete	19	1	AAQ68444
Human GIP transcri	19	1	AAQ68444
Human GIP siNA low	19	1	AAQ68444
Netrin-G2 antisens	19	1	AAQ68444
Extend primer 365	19	1	AAQ68444



```

AC ABN31763;
XX
XX 15-JUL-2002 (first entry)
XX
XX Rat spliced transcript detection oligonucleotide SEQ ID NO:4511.
XX
XX Human; mouse; rat; splice transcript; detection; RNA transcript;
KW splice variant; transcriptome; oligonucleotide library; ss.
XX
XX Rattus norvegicus.
XX
XX WO200210449-A2.
XX
XX 07-FEB-2002.
XX
XX 20-JUL-2001; 2001WO-IB001903.
XX
XX 28-JUL-2000; 2000US-0221607P.
PR 02-MAY-2001; 2001US-0287724P.
XX
XX (COMP-) COMPUGEN INC.
XX
XX Shoshan A, Wasserman A, Mintz E, Mintz L, Faigler S;
XX
XX WPI; 2002-257383/30.
XX
XX New oligonucleotide libraries comprising oligonucleotides which
PT selectively hybridize to mRNAs transcribed from a transcription unit of a
PT genome, useful for detecting tissue-, pathology-, and developmental-
PT specific genes.
XX
XX Example 1; SEQ ID NO 4511; 47pp; English.
XX
XX The present invention describes oligonucleotide libraries for detecting
CC messenger RNAs that populate a (sub-)transcriptome, where the (sub-)
CC transcriptome comprises messenger RNAs transcribed from multiple
CC transcription units that populate a genome. The library comprises several
CC oligonucleotides, each capable of hybridising selectively to a set of
CC messenger RNAs transcribed from a given transcription unit of the genome,
CC which encodes one or more messenger RNA splice variants. The
CC oligonucleotide libraries are useful for detecting mRNAs from a
CC biological sample, in expression profiling studies, in qualitatively or
CC quantitatively characterising the corresponding transcriptome, and in
CC detecting RNA transcripts and splice variants of human or animal
CC transcriptomes. The libraries may also be used as specialised mini
CC libraries to detect transcripts of a sub-transcriptome under a particular
CC biological or pathological state, and so allowing the detection of tissue
CC - and pathology-specific genes such as those genes only expressed in
CC specific tissue under a specific pathological condition; to detect
CC developmental specific genes; and to detect RNA transcripts and splice
CC variants of a transcriptome of a patient suffering from a particular
CC disorder. ABN27253 to ABN59589 represent oligonucleotide sequences from
CC rats, humans and mice, which are used in the exemplification of the
CC present invention. N.B. The sequence data for this patent did not form
CC part of the printed specification, but was obtained in electronic format
CC directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 65 BP; 12 A; 17 C; 20 G; 16 T; 0 U; 0 Other;
XX
XX Query Match 2.3%; Score 65; DB 1; Length 65;
XX Best Local Similarity 100.0%; Pred. No. 0.0016;
XX Matches 65; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
OY 2794 AGCAGTGGCTGCTGAAGTCAGTTGAAGGACGAGTTCCTCTTGGGGTCACTGCTTCA 2853
Dd 1 AGCAGTGGCTGCTGTAAGTCAGTTGAAGGACGAGTTCCTCTTGGGGTCACTGCTTCA 60
OY 2854 CTAGC 2858
Dd 61 CTAGC 65

```

RESULT 2

```

ADM95345/c
ID ADM95345 standard; DNA; 80 BP.
XX
XX ADM95345;
AC
XX 01-JUL-2004 (first entry)
DT
XX Rat antisense oligonucleotide #238.
DE
XX
XX Rat; antisense oligonucleotide; ss; antisense RNA production; oncogenes;
KW tumour suppressor; cell cycle regulator; ion channel protein;
KW transport protein; intracellular signal transduction;
KW transcription factor; DNA-binding protein;
KW cell-cell communication protein; stress response gene;
KW apoptosis related gene; growth factor; chemokine; interleukin;
KW interferon; hormone; neurotransmitter; cell surface antigen;
KW cell adhesion molecule.
XX
XX Rattus sp.
OS
XX US2004072191-A1.
XX
XX 15-APR-2004.
PD
XX 07-MAR-2003; 2003US-00384245.
XX
XX 07-MAR-2002; 2002US-0362823P.
PR
XX (CHEN/) CHENCHIK A.
XX
XX Chenchik A;
PI
XX WPI; 2004-373913/35.
XX
XX New standardizing control for RNA samples to be tested on non-control
PT gene sequences on nucleic acid arrays, useful for producing a population
PT of distinct antisense RNA molecules from an initial population of
PT distinct mRNA molecules.
XX
XX Disclosure; SEQ ID NO 238; 282pp; English.
XX
XX The invention relates to a standardising control for RNA samples to be
CC tested on non-control gene sequences on nucleic acid arrays, comprising a
CC pool of unique tagged synthetic antisense mRNA molecules of a known
CC concentration, where any two sequences are unique if their sequences
CC differ. The non-control gene sequences on the nucleic acid array comprise
CC oncogenes, genes encoding tumour suppressors, cell cycle regulators, ion
CC channel proteins, transport proteins, intracellular signal transduction
CC modulator and effector factors, transcription factors, DNA-binding
CC proteins, receptors or cell-cell communication proteins, stress response
CC genes, apoptosis related genes, DNA synthesis/recombination/repair genes
CC for growth factors, chemokines, interleukins, interferons, hormones,
CC neurotransmitters, cell surface antigens or cell adhesion molecules. The
CC genes encoding cell-cell communication proteins comprise growth factors,
CC cytokines, chemokines, interleukins, interferons or hormones. The
CC standardising control for RNA samples to be tested on non-control gene
CC sequences on nucleic acid arrays is useful for producing a population of
CC distinct antisense RNA molecules from an initial population of distinct
CC mRNA molecules. This sequence represents an antisense oligonucleotide of
CC the invention.
XX
XX Sequence 80 BP; 13 A; 24 C; 22 G; 21 T; 0 U; 0 Other;
XX
XX Query Match 2.3%; Score 64.4; DB 1; Length 80;
XX Best Local Similarity 98.5%; Pred. No. 0.0025;
XX Matches 65; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
OY 1909 GAGTCACCCATTTTACTGAGTCTGAGGAGACTTCACCCCGGAGCAGCACCTACAGTGAC 1968
Dd 74 GTGTACCCATTTTACTGAGTCTGAGGAGACTTCACCCCGGAGCAGCACCTACAGTGAC 15
OY 1969 ACCAGC 1974

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Db	14	ACCAGC	9		Db	1	AACGAGTTCCTGCTGCTTATCATCTTCCTGGCCCTGGGAGTGCTCATCTTTGCCACCATG	60
RESULT 3					QY	1597	ATCTA 1601	
ABN54132					Db	61	ATCTA 65	
ABN54132 standard; DNA; 65 BP.					RESULT 4			
ABN54132;					AZ211947			
15-JUL-2002 (first entry)					ID	AAZ11947	standard; DNA; 45 BP.	
Mouse spliced transcript detection oligonucleotide SEQ ID NO:26880.					XX	AAZ11947;		
Human; mouse; rat; splice transcript; detection; RNA transcript;					XX	30-NOV-1999	(first entry)	
splice variant; transcriptome; oligonucleotide library; ss.					XX	Human potassium channel pore domain DNA sequence 7.		
Mus musculus.					XX	Potassium channel; ataxia; arrhythmia; epilepsy; Bartter's syndrome;		
WO200210449-A2.					XX	cardiovascular disorder; CNS disorder; renal disorder; ss.		
07-FEB-2002.					OS	Synthetic.		
20-JUL-2001; 2001WO-IB001903.					OS	Homo sapiens.		
28-JUL-2000; 2000US-0221607P.					XX	WO9943696-A1.		
02-MAY-2001; 2001US-0287724P.					XX	02-SEP-1999.		
(COMP-) COMPUGEN INC.					XX	22-FEB-1999; 99WO-US003826.		
Shoshan A, Wasserman A, Mintz E, Mintz L, Faigler S;					XX	25-FEB-1998; 98US-0076687P.		
WPI; 2002-257383/30.					PR	07-AUG-1998; 98US-0095836P.		
New oligonucleotide libraries comprising oligonucleotides which					PR	19-JAN-1999; 99US-0116448P.		
selectively hybridize to mRNAs transcribed from a transcription unit of a					XX	(AXYS-) AXYS PHARM INC.		
genome, useful for detecting tissue-, pathology-, and developmental-					XX	Miller AP, Curran ME, Hu P, Rutter M, Wang J;		
specific genes.					XX	WPI; 1999-527591/44.		
Example 1; SEQ ID NO 26880; 47pp; English.					XX	New nucleic acids encoding mammalian K-Hnov potassium channel proteins,		
The present invention describes oligonucleotide libraries for detecting					PT	cardiac arrhythmia, epilepsy and Bartter's syndrome.		
messenger RNAs that populate a (sub-)transcriptome, where the (sub-					PT	Example 1; Page 31; 112pp; English.		
)transcriptome comprises messenger RNAs transcribed from multiple					XX	This sequence represents a DNA encoding a pore domain from a human		
transcription units that populate a genome. The library comprises several					CC	potassium channel and was used in the identification and isolation of		
oligonucleotides, each capable of hybridising selectively to a set of					CC	human K-Hnov cDNAs (AAZ11897-211915). K-Hnov proteins have a high degree		
messenger RNAs transcribed from a given transcription unit of the genome,					CC	of homology to known potassium channels and may be alpha subunits, which		
which encodes one or more messenger RNA splice variants. The					CC	form the functional channel, or accessory subunits that act to modulate		
oligonucleotide libraries are useful for detecting mRNAs from a					CC	the channel activity. K-Hnov cDNAs were isolated by extension of		
biological sample, in expression profiling studies, in qualitatively or					CC	expressed sequence tags (ESTs) which were related but not identical to		
quantitatively characterising the corresponding transcriptome, and in					CC	known human potassium channels. Potential polymorphisms detected as		
detecting RNA transcripts and splice variants of human or animal					CC	sequence variants between multiple independent clones. Potassium channels		
transcriptomes. The libraries may also be used as specialised mini					CC	have critical roles in various cell types and biochemical pathways.		
libraries to detect transcripts of a sub-transcriptome under a particular					CC	Defective potassium channels are known to cause four human diseases:		
biological or pathological state, and so allowing the detection of tissue					CC	epileptic ataxia with myokymia; cardiac arrhythmia (long QT syndrome);		
- and pathology-specific genes such as those genes only expressed in					CC	epilepsy; and Bartter's syndrome. As potassium channels are critical		
specific tissue under a specific pathological condition; to detect					CC	components of virtually all cells, it is likely that abnormal potassium		
developmental specific genes; and to detect RNA transcripts and splice					CC	channels are also implicated in certain renal, cardiovascular and central		
variants of a transcriptome of a patient suffering from a particular					CC	nervous system (CNS) disorders. Nucleotides encoding K-Hnov proteins may		
disorder. ABN27253 to ABN59589 represent oligonucleotide sequences from					CC	be used for identifying homologous or related proteins and the DNA		
rats, humans and mice, which are used in the exemplification of the					CC	sequences encoding them. They may be used to produce compositions that		
present invention. N.B. The sequence data for this patent did not form					CC	modulate the expression and function of the K-Hnov protein and in		
part of the printed specification, but was obtained in electronic format					CC	studying the biochemical pathways associated with it. They may also be		
directly from WIPO at ftp.wipo.int/pub/published_pat_sequences					CC	used for the recombinant production of K-Hnov protein in fermentation		
Sequence 65 BP; 11 A; 20 C; 13 G; 21 T; 0 U; 0 Other;					CC	cultures. Additionally, such nucleotides may be used in gene therapy		
Query Match	2.2%;	Score 63.4;	DB 1;	Length 65;	CC	potassium channels		
Best Local Similarity	98.5%;	Pred. No. 0.0024;	1;	Indels	XX	Sequence 45 BP; 8 A; 9 C; 18 G; 10 T; 0 U; 0 Other;		
Matches	64;	Conservative	0;	Mismatches	QY	1.4%;	Score 40.2;	DB 1;
1537	AACGAGTTCCTGCTGCTTATCATCTTCCTGGCCCTGGGAGTGCTCATCTTTGCCACCATG	1596			Query Match	1.4%;	Score 40.2;	DB 1;
					Length 45;			

Best Local Similarity 93.3%; Pred. No. 0.72; Mismatches 0; Conservative 0; Indels 3; Gaps 0;

QY 1684 TGGTGGCTGTGGTCACCATGACACCGCTTGGCTATGGGGACATG 1728  
 |||||  
 Db 1 TGGTGGCAGTGGTCACCATGACACCGCTTGGCTATGGGGACATG 45

RESULT 5  
 AAZ11941  
 ID AAZ11941 standard; DNA; 45 BP.  
 XX  
 AC AAZ11941;  
 XX  
 DT 30-NOV-1999 (first entry)  
 XX  
 DE Human potassium channel pore domain DNA sequence 1.  
 XX  
 KW Potassium channel; ataxia; arrhythmia; epilepsy; Bartter's syndrome;  
 KW cardiovascular disorder; CNS disorder; renal disorder; ss.  
 XX  
 OS Synthetic.  
 OS Homo sapiens.  
 XX  
 PN WO9943696-A1.  
 XX  
 PD 02-SEP-1999.  
 XX  
 PF 22-FEB-1999; 99WO-US003826.  
 XX  
 PR 25-FEB-1998; 98US-0076687P.  
 PR 07-AUG-1998; 98US-0095836P.  
 PR 19-JAN-1999; 99US-0116448P.  
 XX  
 PA (AXYS-) AXYS PHARM INC.  
 XX  
 PI Miller AP, Curran ME, Hu P, Rutter M, Wang J;  
 XX  
 DR WPI; 1999-527591/44.  
 XX  
 PT New nucleic acids encoding mammalian K-Hnov potassium channel proteins,  
 PT useful for the diagnosis and treatment of episodic ataxia with myokymia,  
 PT cardiac arrhythmia, epilepsy and Bartter's syndrome.  
 XX  
 PS Example 1; Page 31; 112pp; English.  
 XX  
 CC This sequence represents a DNA encoding a pore domain from a human  
 CC potassium channel and was used in the identification and isolation of  
 CC human K-Hnov cDNAs (AAZ11897-211915). K-Hnov proteins have a high degree  
 CC of homology to known potassium channels and may be alpha subunits, which  
 CC form the functional channel, or accessory subunits that act to modulate  
 CC the channel activity. K-Hnov cDNAs were isolated by extension of  
 CC expressed sequence tags (ESTs) which were related but not identical to  
 CC known human potassium channels. Potential polymorphisms detected as  
 CC sequence variants between multiple independent clones. Potassium channels  
 CC have critical roles in various cell types and biochemical pathways.  
 CC Defective potassium channels are known to cause four human diseases:  
 CC episodic ataxia with myokymia; cardiac arrhythmia (long QT syndrome);  
 CC epilepsy; and Bartter's syndrome. As potassium channels are critical  
 CC components of virtually all cells, it is likely that abnormal potassium  
 CC channels are also implicated in certain renal, cardiovascular and central  
 CC nervous system (CNS) disorders. Nucleotides encoding K-Hnov proteins may  
 CC be used for identifying homologous or related proteins and the DNA  
 CC sequences encoding them. They may be used to produce compositions that  
 CC modulate the expression and function of the K-Hnov protein and in  
 CC studying the biochemical pathways associated with it. They may also be  
 CC used for the recombinant production of K-Hnov protein in fermentation  
 CC cultures. Additionally, such nucleotides may be used in gene therapy  
 CC protocols for the treatment of diseases associated with abnormal  
 CC potassium channels  
 XX  
 SQ Sequence 45 BP; 8 A; 7 C; 19 G; 11 T; 0 U; 0 Other;

Query Match 1.4%; Score 38.6; DB 1; Length 45;  
 Best Local Similarity 91.1%; Pred. No. 1.1; Mismatches 0; Conservative 4; Indels 0; Gaps 0;

QY 1684 TGGTGGCTGTGGTCACCATGACACCGCTTGGCTATGGGGACATG 1728  
 |||||  
 Db 1 TGGTGGCTGTGGTCACCATGACACCGCTTGGCTATGGGGACATG 45

RESULT 6  
 AAZ11945  
 ID AAZ11945 standard; DNA; 45 BP.  
 XX  
 AC AAZ11945;  
 XX  
 DT 30-NOV-1999 (first entry)  
 XX  
 DE Human potassium channel pore domain DNA sequence 5.  
 XX  
 KW Potassium channel; ataxia; arrhythmia; epilepsy; Bartter's syndrome;  
 KW cardiovascular disorder; CNS disorder; renal disorder; ss.  
 XX  
 OS Synthetic.  
 OS Homo sapiens.  
 XX  
 PN WO9943696-A1.  
 XX  
 PD 02-SEP-1999.  
 XX  
 PF 22-FEB-1999; 99WO-US003826.  
 XX  
 PR 25-FEB-1998; 98US-0076687P.  
 PR 07-AUG-1998; 98US-0095836P.  
 PR 19-JAN-1999; 99US-0116448P.  
 XX  
 PA (AXYS-) AXYS PHARM INC.  
 XX  
 PI Miller AP, Curran ME, Hu P, Rutter M, Wang J;  
 XX  
 DR WPI; 1999-527591/44.  
 XX  
 PT New nucleic acids encoding mammalian K-Hnov potassium channel proteins,  
 PT useful for the diagnosis and treatment of episodic ataxia with myokymia,  
 PT cardiac arrhythmia, epilepsy and Bartter's syndrome.  
 XX  
 PS Example 1; Page 31; 112pp; English.  
 XX  
 CC This sequence represents a DNA encoding a pore domain from a human  
 CC potassium channel and was used in the identification and isolation of  
 CC human K-Hnov cDNAs (AAZ11897-211915). K-Hnov proteins have a high degree  
 CC of homology to known potassium channels and may be alpha subunits, which  
 CC form the functional channel, or accessory subunits that act to modulate  
 CC the channel activity. K-Hnov cDNAs were isolated by extension of  
 CC expressed sequence tags (ESTs) which were related but not identical to  
 CC known human potassium channels. Potential polymorphisms detected as  
 CC sequence variants between multiple independent clones. Potassium channels  
 CC have critical roles in various cell types and biochemical pathways.  
 CC Defective potassium channels are known to cause four human diseases:  
 CC episodic ataxia with myokymia; cardiac arrhythmia (long QT syndrome);  
 CC epilepsy; and Bartter's syndrome. As potassium channels are critical  
 CC components of virtually all cells, it is likely that abnormal potassium  
 CC channels are also implicated in certain renal, cardiovascular and central  
 CC nervous system (CNS) disorders. Nucleotides encoding K-Hnov proteins may  
 CC be used for identifying homologous or related proteins and the DNA  
 CC sequences encoding them. They may be used to produce compositions that  
 CC modulate the expression and function of the K-Hnov protein and in  
 CC studying the biochemical pathways associated with it. They may also be  
 CC used for the recombinant production of K-Hnov protein in fermentation  
 CC cultures. Additionally, such nucleotides may be used in gene therapy  
 CC protocols for the treatment of diseases associated with abnormal  
 CC potassium channels  
 XX  
 SQ Sequence 45 BP; 8 A; 10 C; 17 G; 10 T; 0 U; 0 Other;

Query Match 1.4%; Score 38.6; DB 1; Length 45;  
Best Local Similarity 91.1%; Pred. No. 1.1;  
Matches 41; Conservative 0; Mismatches 0; Gaps 0;

1684 TGGTGGGCTGTGGTCACCATGACAAACGCTTGGCTATGGGACATG 1728  
|||||  
1 TGGTGGGCTGTGGTCACCATGACAAACGCTTGGGCTATGGGACATG 45

Db

RESULT 7  
AAZ11950  
ID AAZ11950 standard; DNA; 45 BP.  
XX  
AC AAZ11950;  
XX  
DT 30-NOV-1999 (first entry)  
XX  
DE Human potassium channel pore domain DNA sequence 10.  
XX  
KW Potassium channel; ataxia; arrhythmia; epilepsy; Bartter's syndrome;  
KW cardiovascular disorder; CNS disorder; renal disorder; ss.  
XX  
OS Synthetic.  
OS Homo sapiens.  
XX  
FN WO9943696-A1.  
XX  
PD 02-SEP-1999.  
XX  
PF 22-FEB-1999; 99WO-US003826.  
XX  
PR 25-FEB-1998; 98US-0076687P.  
PR 07-AUG-1998; 98US-0095836P.  
PR 19-JAN-1999; 99US-0116448P.  
XX  
PA (AXYS-) AXYS PHARM INC.  
XX  
PI Miller AP, Curran ME, Hu P, Rutter M, Wang J;  
XX  
DR WPI; 1999-527591/44.  
XX  
PT New nucleic acids encoding mammalian K-Hnov potassium channel proteins,  
PT useful for the diagnosis and treatment of episodic ataxia with myokymia,  
PT cardiac arrhythmia, epilepsy and Bartter's syndrome.  
XX  
PS Example 1; Page 31; 112pp; English.  
XX  
CC This sequence represents a DNA encoding a pore domain from a human  
CC potassium channel and was used in the identification and isolation of  
CC human K-Hnov cDNAs (AAZ11897-Z11915). K-Hnov proteins have a high degree  
CC of homology to known potassium channels and may be alpha subunits, which  
CC form the functional channel, or accessory subunits that act to modulate  
CC the channel activity. K-Hnov cDNAs were isolated by extension of  
CC expressed sequence tags (ESTs) which were related but not identical to  
CC known human potassium channels. Potential polymorphisms detected as  
CC sequence variants between multiple independent clones. Potassium channels  
CC have critical roles in various cell types and biochemical pathways.  
CC Defective potassium channels are known to cause four human diseases:  
CC episodic ataxia with myokymia; cardiac arrhythmia (long QT syndrome);  
CC epilepsy; and Bartter's syndrome. As potassium channels are critical  
CC components of virtually all cells, it is likely that abnormal potassium  
CC channels are also implicated in certain renal, cardiovascular and central  
CC nervous system (CNS) disorders. Nucleotides encoding K-Hnov proteins may  
CC be used for identifying homologous or related proteins and the DNA  
CC sequences encoding them. They may be used to produce compositions that  
CC modulate the expression and function of the K-Hnov protein and in  
CC studying the biochemical pathways associated with it. They may also be  
CC used for the recombinant production of K-Hnov protein in fermentation  
CC cultures. Additionally, such nucleotides may be used in gene therapy  
CC protocols for the treatment of diseases associated with abnormal  
CC potassium channels  
XX

SQ Sequence 45 BP; 8 A; 7 C; 19 G; 11 T; 0 U; 0 Other;

Query Match 1.4%; Score 38.6; DB 1; Length 45;  
Best Local Similarity 91.1%; Pred. No. 1.1;  
Matches 41; Conservative 0; Mismatches 0; Gaps 0;

1684 TGGTGGGCTGTGGTCACCATGACAAACGCTTGGCTATGGGACATG 1728  
|||||  
1 TGGTGGGCTGTGGTCACCATGACAAACGCTTGGGCTATGGGACATG 45

Db

RESULT 8  
AAZ11948  
ID AAZ11948 standard; DNA; 45 BP.  
XX  
AC AAZ11948;  
XX  
DT 30-NOV-1999 (first entry)  
XX  
DE Human potassium channel pore domain DNA sequence 8.  
XX  
KW Potassium channel; ataxia; arrhythmia; epilepsy; Bartter's syndrome;  
KW cardiovascular disorder; CNS disorder; renal disorder; ss.  
XX  
OS Synthetic.  
OS Homo sapiens.  
XX  
FN WO9943696-A1.  
XX  
PD 02-SEP-1999.  
XX  
PF 22-FEB-1999; 99WO-US003826.  
XX  
PR 25-FEB-1998; 98US-0076687P.  
PR 07-AUG-1998; 98US-0095836P.  
PR 19-JAN-1999; 99US-0116448P.  
XX  
PA (AXYS-) AXYS PHARM INC.  
XX  
PI Miller AP, Curran ME, Hu P, Rutter M, Wang J;  
XX  
DR WPI; 1999-527591/44.  
XX  
PT New nucleic acids encoding mammalian K-Hnov potassium channel proteins,  
PT useful for the diagnosis and treatment of episodic ataxia with myokymia,  
PT cardiac arrhythmia, epilepsy and Bartter's syndrome.  
XX  
PS Example 1; Page 31; 112pp; English.  
XX  
CC This sequence represents a DNA encoding a pore domain from a human  
CC potassium channel and was used in the identification and isolation of  
CC human K-Hnov cDNAs (AAZ11897-Z11915). K-Hnov proteins have a high degree  
CC of homology to known potassium channels and may be alpha subunits, which  
CC form the functional channel, or accessory subunits that act to modulate  
CC the channel activity. K-Hnov cDNAs were isolated by extension of  
CC expressed sequence tags (ESTs) which were related but not identical to  
CC known human potassium channels. Potential polymorphisms detected as  
CC sequence variants between multiple independent clones. Potassium channels  
CC have critical roles in various cell types and biochemical pathways.  
CC Defective potassium channels are known to cause four human diseases:  
CC episodic ataxia with myokymia; cardiac arrhythmia (long QT syndrome);  
CC epilepsy; and Bartter's syndrome. As potassium channels are critical  
CC components of virtually all cells, it is likely that abnormal potassium  
CC channels are also implicated in certain renal, cardiovascular and central  
CC nervous system (CNS) disorders. Nucleotides encoding K-Hnov proteins may  
CC be used for identifying homologous or related proteins and the DNA  
CC sequences encoding them. They may be used to produce compositions that  
CC modulate the expression and function of the K-Hnov protein and in  
CC studying the biochemical pathways associated with it. They may also be  
CC used for the recombinant production of K-Hnov protein in fermentation  
CC cultures. Additionally, such nucleotides may be used in gene therapy  
CC protocols for the treatment of diseases associated with abnormal  
CC potassium channels  
CC

```
XX SQ Sequence 45 BP; 8 A; 11 C; 17 G; 9 T; 0 U; 0 Other;
Query Match 1.3%; Score 37; DB 1; Length 45;
Best Local Similarity 88.9%; Pred. No. 1.7;
Matches 40; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

OY 1684 TGGTGGCGTGGTCCACCATGACACGCTGGCTATGGGACATG 1728
|||||
DB 1 TGGTGGCGTGGTCCACCATGACACGCTGGCTATGGGACATG 45

RESULT 9
AAZ11949
ID AAZ11949 standard; DNA; 45 BP.
AC AAZ11949;
XX
XX
XX 30-NOV-1999 (first entry)
XX
XX Human potassium channel pore domain DNA sequence 9.
XX
XX Potassium channel; ataxia; arrhythmia; epilepsy; Bartter's syndrome;
KW cardiovascular disorder; CNS disorder; renal disorder; ss.
XX
XX Synthetic.
OS Homo sapiens.
XX
XX W09943696-A1.
XX
XX 02-SEP-1999.
XX
XX 22-FEB-1999; 99WO-US003826.
XX
XX 25-FEB-1998; 98US-0076687P.
XX 07-AUG-1998; 98US-0095836P.
XX 19-JAN-1999; 99US-0116448P.
XX
XX (AXYS-) AXYS PHARM INC.
XX
XX Miller AP, Curran ME, Hu P, Rutter M, Wang J;
XX WPI; 1999-527591/44.
XX
XX New nucleic acids encoding mammalian K-Hnov potassium channel proteins,
PT useful for the diagnosis and treatment of episodic ataxia with myokymia,
PT cardiac arrhythmia, epilepsy and Bartter's syndrome.
XX
XX Example 1; Page 31; 112pp; English.
XX
XX This sequence represents a DNA encoding a pore domain from a human
XX potassium channel and was used in the identification and isolation of
XX human K-Hnov cDNAs (AAZ11897-Z11915). K-Hnov proteins have a high degree
XX of homology to known potassium channels and may be alpha subunits, which
XX form the functional channel, or accessory subunits that act to modulate
XX the channel activity. K-Hnov cDNAs were isolated by extension of
XX expressed sequence tags (ESTs) which were related but not identical to
XX known human potassium channels. Potential polymorphisms detected as
XX sequence variants between multiple independent clones. Potassium channels
XX have critical roles in various cell types and biochemical pathways.
XX Defective potassium channels are known to cause four human diseases:
XX episodic ataxia with myokymia; cardiac arrhythmia (long QT syndrome);
XX epilepsy; and Bartter's syndrome. As potassium channels are critical
XX components of virtually all cells, it is likely that abnormal potassium
XX channels are also implicated in certain renal, cardiovascular and central
XX nervous system (CNS) disorders. Nucleotides encoding K-Hnov proteins may
XX be used for identifying homologous or related proteins and the DNA
XX sequences encoding them. They may be used to produce compositions that
XX modulate the expression and function of the K-Hnov protein and in
XX studying the biochemical pathways associated with it. They may also be
XX used for the recombinant production of K-Hnov protein in fermentation
XX cultures. Additionally, such nucleotides may be used in gene therapy
XX protocols for the treatment of diseases associated with abnormal
```

```
CC potassium channels
XX
XX SQ Sequence 45 BP; 9 A; 10 C; 17 G; 9 T; 0 U; 0 Other;
Query Match 1.3%; Score 37; DB 1; Length 45;
Best Local Similarity 88.9%; Pred. No. 1.7;
Matches 40; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

OY 1684 TGGTGGCGTGGTCCACCATGACACGCTGGCTATGGGACATG 1728
|||||
DB 1 TGGTGGCGTGGTCCACCATGACACGCTGGCTATGGGACATG 45

RESULT 10
ABX04111
ID ABX04111 standard; DNA; 30 BP.
XX
XX AC ABX04111;
XX
XX 13-JAN-2003 (first entry)
XX
XX Oligonucleotide for creation of peptides controlling signal pathways #18.
XX
XX Transdominant intercellular bioactive agent; cancer; tumour; apoptosis;
KW cell death; cell division; cell growth; brca-1; brca-2;
KW tumour suppressor; adenomatous polyposis coli gene; cardiovascular;
KW arrhythmia; heart failure; neurobiology; endocrinology; immunobiology;
KW stroke; infectious disease; bone; inflammation; allergic response;
KW atherosclerosis; obesity; skin biology application; ds.
XX
XX OS Synthetic.
XX
XX US2002127564-A1.
XX
XX 12-SEP-2002.
XX
XX 27-JUL-2001; 2001US-00916940.
XX
XX 23-JAN-1996; 96US-00589109.
XX 23-JAN-1996; 96US-00589911.
XX 23-JAN-1997; 97US-00787738.
XX 23-JAN-1997; 97US-00789333.
XX 28-NOV-1997; 97US-00963368.
XX 28-NOV-2000; 2000US-00727715.
XX
XX (NOLA/) NOLAN G P.
XX
XX Nolan GP;
XX
XX WPI; 2003-028932/02.
XX
XX Screening for transdominant bioactive agents capable of altering
XX phenotype of a cell, by introducing library of randomized candidate
XX nucleic acids into several cells and selecting cells exhibiting altered
XX phenotype.
XX
XX Example 2; Fig 2; 38pp; English.
XX
XX The invention describes a method of screening (M) for a transdominant
XX intercellular bioactive agent capable of altering phenotype of a cell,
XX comprising introducing a molecular library of randomized candidate
XX nucleic acids into several cells, where each of the nucleic acids
XX comprises a different nucleotide sequence and screening the cells for a
XX cell exhibiting an altered phenotype, where the altered phenotype is due
XX to presence of a transdominant bioactive agent. The bioactive agent or
XX the nucleic acid encoding it are useful to identify target molecules,
XX i.e. the molecules with which the bioactive agent interacts. (M) is
XX useful in; cancer applications by introducing random libraries into any
XX tumour cell and identifying peptides which by induce apoptosis, cell
XX death, loss of cell division or decreased cell growth; for screening of
XX bioactive agents which restore the constitutive function of the brca-1 or
XX brca-2 genes, and other tumour suppressor genes important in breast
XX cancer such as the adenomatous polyposis coli gene; in cardiovascular
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QY 1934 AGGAGACTTCACCCCGGACAGCAGCCTACAG 1964  
 Db 1 AGAGACTTCCCCCGGACAGCAGCCTGCAG 31

RESULT 13  
 AAV44665/c  
 ID AAV44665 standard; DNA; 28 BP.  
 XX AAV44665;  
 AC  
 DT 07-OCT-1998 (first entry)  
 XX  
 DE Triplex-forming oligonucleotide HN28ap.  
 XX  
 KW Triplex-forming oligonucleotide; her-2/neu promoter; HN28ap; HN28apPTE;  
 KW polycationic oligomer; nucleic acid uptake; gene therapy;  
 KW prostate cancer; ss.  
 XX  
 OS Synthetic.  
 XX  
 FH Key Location/Qualifiers  
 FT modified\_base 1..28  
 FT /\*tag= a  
 FT /mod\_base= optionally phosphorothioate ester backbone  
 XX  
 FN WO9827209-A1.  
 PD 25-JUN-1998.  
 PF 18-DEC-1997; 97WO-US024253.  
 XX  
 PR 18-DEC-1996; 96US-0032436P.  
 XX  
 PA (UYEM-) UNIV EMORY.  
 PI Liotta DC, Petros JA, Wey S, Karr JF, Pohl J;  
 XX  
 DR WPI; 1998-362778/31.  
 XX  
 PT New poly:cationic oligomer cell transfection agent (s) - are size-selected  
 PT for precise neutralisation of nucleic acid charge to facilitate uptake in  
 PT e.g. cancer cells.  
 XX  
 PS Claim 85; Page 81; 91pp; English.

This sequence represents the triplex forming oligonucleotide HN28ap (the phosphorothioate ester form is known as HN28apPTE), which targets the her-2/neu promoter. This sequence can be used with the polycationic oligomers of the invention. The polycationic oligomers are of discrete length, and have a repeating structure of formula (I): ((REP)m-(M) r-(REP)n-(M))l-(REP)p (I); M = flexible spacer; r,s = 0 or 1; m,n,p,l = the numbers of corresponding units, where the total number of repeating units (z) in (I) is l(m + n) + p; REP = repeating unit containing a cationic side-group (CSG) and having the structure -[X1-Q1-CO-Y2-Q2-CO]-; X1 = O or NR3; Y2 = O or NR4; one of Q1 and Q2 in each repeating unit = (CH2)w and the other = CHR'; w = 1-3; R',R3,R4 = H, 1-3C alkyl, a non-cationic side-group or a CSG, provided that one, and only one, CSG is present in each repeating unit. The polycationic oligomers are useful as transfecting agents for facilitating the uptake of nucleic acids into eukaryotic cells in vitro or in vivo, especially human cells, e.g. in research, diagnostics or gene therapy. The polycationic oligomer is especially used in the transfection of cancer cells, e.g. for the gene therapy treatment of prostate cancer by introduction of this sequence. The polycationic oligomer/nucleic acid complexes can be administered in pharmaceutical compositions. The size of the polycationic oligomers can be selected to neutralise the charge of a specific nucleic acid precisely and thus facilitate its uptake. The oligomers can also be designed to have varying degrees of biodegradability or to contain a wide range of biological active moieties, e.g. for targeting or labelling

Sequence 28 BP; 8 A; 0 C; 19 G; 1 T; 0 U; 0 Other;

Query Match 0.9%; Score 25.4; DB 1; Length 28;  
 Best Local Similarity 96.3%; Pred. No. 19;  
 Matches 26; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 275 TCCTCTCTCTCCACCCACCTCTCTCTCTCC 301  
 Db 28 TCCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2

RESULT 14  
 AAQ88044/c  
 ID AAQ88044 standard; RNA; 31 BP.  
 XX  
 AC AAQ88044;  
 XX  
 DT 25-MAR-2003 (revised)  
 DT 31-OCT-1995 (first entry)  
 XX  
 DE GA-rich triplex binding motif for HER2 promoter fragment.  
 XX  
 KW HER2 promoter; triplex RNA; binding motif; ss.  
 OS Synthetic.  
 XX  
 PN WO9510607-A1.  
 PD 20-APR-1995.  
 XX  
 PF 14-OCT-1994; 94WO-US011616.  
 XX  
 PR 14-OCT-1993; 93US-00138666.  
 XX  
 PA (REGC ) UNIV CALIFORNIA.  
 XX  
 PI Noonberg SH, Hunt AC;  
 XX  
 DR WPI; 1995-161794/21.  
 XX  
 PT Constructs having 5'-stabilising and 3'-terminating flanking regions, -  
 PT for intracellular generation of oligo:nucleotide transcript, useful in  
 PT gene regulation and therapy.  
 XX  
 PS Example; Fig 3; 145pp; English.

AAQ88045 is a ds probe which corresp. to bases -68 to -19 on the HER2/c-erb B2/neu proto-oncogene. It contains a homopurine/homopyrimidine tract involved in triplex formation. The CU-rich (AAQ88043) and GA-rich (AAQ88044) RNA sequences corresp. to pyrimidine (parallel) or purine (antiparallel) third strand triplex binding motifs respectively. The CU-rich RNA was generated in vitro from a pBluescript deriv. in which the multicloning site was replaced with a 28 bt synthetic oligo duplex. When linearised with SstI and transcribed by T3 RNA polymerase the transcript AAQ88043 was generated. When linearised with KpnI and transcribed by T7 RNA polymerase in the opposite orientation, the corresp. antisense GA-rich strand was generated. Both transcripts also contained approx. 12 nts of flanking RNA derived from cloning and the polymerase start sequences. (Updated on 25-MAR-2003 to correct PN field.)

Sequence 31 BP; 10 A; 0 C; 21 G; 0 T; 0 U; 0 Other;

Query Match 0.9%; Score 25.2; DB 1; Length 31;  
 Best Local Similarity 90.0%; Pred. No. 23;  
 Matches 27; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 279 CCTCTCTCCACCCCTCTCTCTCTCTCTCTCGT 308  
 Db 30 CCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1

RESULT 15  
 AAD58099  
 ID AAD58099 standard; DNA; 28 BP.  
 XX





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XX WO2004091627-A2.
XX 28-OCT-2004.
XX 07-APR-2004; 2004WO-US010969.
XX 07-APR-2003; 2003US-0461205P.
XX 12-NOV-2003; 2003US-0519569P.
XX (CYLE-) CYLENE PHARM INC.
XX Whitten JP, Schwaabe MK, Moran T;
XX WPI; 2004-775560/76.
XX New 1,4-dihydro-4-oxod-1,8-naphthpyridine analogs useful for treatment of
XX e.g. cancer, bacterial, viral infections.
XX Disclosure; Page 11; 37pp; English.
XX The invention relates to novel 1,4-dihydro-4-oxod-1,8-naphthpyridine
XX analogs. The naphthpyridine analogs are used for the amelioration of a
XX cell proliferative disorder e.g. cancer in a subject e.g. animal;
XX microbial infection e.g. viral, bacterial or fungal; for identification
XX of a compound that interacts with a quadruplex-forming region of DNA; for
XX treating cancer, bacterial and viral infections, non-Hodgkin lymphoma;
XX for viral infection e.g. hepatitis virus e.g. hepatitis B or C, HIV,
XX rhinovirus, herpes-zoster virus (VZV), herpes simplex virus e.g. HSV-1 or
XX HSV-2), cytomegalovirus (CMV), vaccinia virus, influenza virus,
XX encephalitis virus, hantavirus, arbovirus, west nile virus, human
XX papilloma virus, Epstein-Barr Virus, and respiratory syncytial virus. (I)
XX reduces cell proliferation or induces cell death in a system e.g. cell or
XX tissue or reduces microbial titers e.g. viral, bacterial or fungal. (I)
XX interact with regions of DNA that can form quadruplexes and act as tumor
XX suppression genes with high affinity; reduces expression of highly
XX proliferate genes; exhibits antibacterial or antiviral activity. This
XX sequence corresponds to an example of a quadruplex forming region from
XX the HER2/neu gene to which the analogs of the invention may be targeted.
XX Sequence 27 BP; 9 A; 0 C; 17 G; 1 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 23.8; DB 1; Length 27;
XX Best Local Similarity 92.6%; Pred. No. 28;
XX Matches 25; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
Qy 276 CCTCTCTCTCCACCACCTCTCTCTCTCT 302
Db ||||| ||||| ||||| ||||| |||||
27 CCTCTCTCTCCACCACCTCTCTCTCTCTCT 1

RESULT 18
AAQ25474/c
ID AAQ25474 standard; DNA; 28 BP.
XX AAQ25474;
XX 25-MAR-2003 (revised)
XX 07-DEC-1992 (first entry)
XX Purine rich HER-2 target duplex sequence.
XX Target; Cytomegalovirus; Herpes simplex virus; AIDS; triplex; HIV;
XX hepatitis; malignancy; tumour; marker; ds.
XX Synthetic.
XX WO9209705-A1.
XX 11-JUN-1992.
XX 25-NOV-1991; 91WO-US008811.
XX

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PR 23-NOV-1990; 90US-00617907.
PR 18-JAN-1991; 91US-00643382.
PR 08-APR-1991; 91US-00683420.
PR 17-APR-1991; 91US-00686544.
PR 17-APR-1991; 91US-00686546.
PR 17-APR-1991; 91US-00686547.
PR 27-SEP-1991; 91US-00766733.
XX (GILE-) GILEAD SCI INC.
XX Froehler B, Krawczyk S, Matteucci MD, Milligan J;
XX WPI; 1992-217083/26.
XX New oligomers contg. modified bases - which form a triplex with G-C
XX doublet in a DNA duplex, for treating and diagnosing HIV, hepatitis,
XX herpes malignancy and inflammation.
XX Claim 11; Page 64; 77pp; English.
XX The sequence depicts a HER-2 sequence from position -64 to -38 in the
XX promoter region. HER-2 is a marker for certain malignant tumours. The
XX sequence is a viral duplex sequence which contains a purine-rich region
XX concentrated on one chain of the duplex. The sequence may be prep'd. by
XX standard DNA synthesis. The HER-2 duplex sequence is used as a target for
XX novel oligomers which are capable of forming a triplex at physiological
XX pH by coupling into the major groove of the DNA duplex. Eight such
XX oligomers HER101-8 are capable of forming a triplex with this sequence.
XX The oligomers are used in the diagnosis and therapy of malignant tumours.
XX Similar oligomers may be used to target viral DNA duplexes specific for
XX HIV, herpes and other viruses. The triple helices form under mild
XX conditions thus assays may be carried out without subjecting the test
XX specimen to harsh conditions. The oligomer is able to inhibit gene
XX expression, as verified by in vitro systems. See also AAQ25452-25501 and
XX AAQ30226-448. (Updated on 25-MAR-2003 to correct PN field.)
XX
XX Sequence 28 BP; 9 A; 0 C; 18 G; 1 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 23.8; DB 1; Length 28;
XX Best Local Similarity 92.6%; Pred. No. 29;
XX Matches 25; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
Qy 276 CCTCTCTCTCCACCACCTCTCTCTCTCT 302
Db ||||| ||||| ||||| ||||| |||||
27 CCTCTCTCTCCACCACCTCTCTCTCTCTCT 1

RESULT 19
AAQ70677/c
ID AAQ70677 standard; DNA; 28 BP.
XX AAQ70677;
XX 25-MAR-2003 (revised)
XX 15-MAR-1995 (first entry)
XX Purine rich region of Erb-B2 gene.
XX Erb-B2; upstream region; regulatory element; gene expression; triplex;
XX antisense; inhibition; screening; identification; cancer; breast cancer;
XX carcinoma; ss.
XX Homo sapiens.
XX Key Location/Qualifiers
XX repeat_unit 1..9
XX /tag= a
XX /note= "Inverted repeat."
XX repeat_unit 17..25
XX /tag= b
XX /note= "Inverted repeat."
XX
XX WO9417086-A1.

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XX 04-AUG-1994.  
PD  
XX 10-JAN-1994; 94WO-US000348.  
PF  
XX 25-JAN-1993; 93US-00008897.  
PR  
XX (APOL-) APOLLON INC.  
PA  
XX Yoon K, Lu M;  
PI  
XX WPI; 1994-264018/32.  
DR  
XX Composition for decreasing gene transcription - comprises  
PT oligo:nucleotide or deriv. complementary to target gene region.  
PT  
XX Example 5; Page 41; 71pp; English.  
XX  
CC The Erb-B2 gene has a purine rich segment with substantial mirror  
CC symmetry. This sequence, derived from the Erb-B2 gene is located 69  
CC nucleotides upstream of the transcriptional start site and is the  
CC potential site of H-DNA formation. The overexpression of Erb-B2 is  
CC particularly associated with breast cancer. A triplex forming  
CC oligonucleotide directed against Erb-B2 is described in AAQ70682.  
CC (Updated on 25-MAR-2003 to correct PN field.)  
CC  
XX Sequence 28 BP; 9 A; 0 C; 18 G; 1 T; 0 U; 0 Other;  
SQ  
Query Match 0.8%; Score 23.8; DB 1; Length 28;  
Best Local Similarity 92.6%; Pred. No. 29;  
Matches 25; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 276 CCTCTCTCTCCACCACTCTCTCTCTCTCT 302  
Db 27 CCTCTCTCTCTCCACCACTCTCTCTCTCTCT 1  
RESULT 20  
AAV44666/c  
ID AAV44666 standard; DNA; 28 BP.  
XX  
AC AAV44666;  
XX  
XX 07-OCT-1998 (first entry)  
DT  
XX Her-2/neu promoter fragment.  
DE  
XX Triplex-forming oligonucleotide; her-2/neu promoter; HN28ap; HN28apPTE;  
KW polycationic oligomer; nucleic acid uptake; gene therapy;  
KW prostate cancer; ds.  
XX  
OS Homo sapiens.  
XX  
XX WO9827209-A1.  
PN  
XX 25-JUN-1998.  
PD  
XX 18-DEC-1997; 97WO-US024253.  
PF  
XX 18-DEC-1996; 96US-0032436P.  
PR  
XX (UYEM-) UNIV EMORY.  
PA  
XX Liotta DC, Petros JA, Wey S, Karr JF, Pohl J;  
PI  
XX WPI; 1998-362778/31.  
DR  
XX New poly:cationic oligomer cell transfection agent (s) - are size-selected  
PT for precise neutralisation of nucleic acid charge to facilitate uptake in  
PT e.g. cancer cells.  
XX  
XX Disclosure; Page 39; 91pp; English.  
PS  
XX

CC This sequence is the fragment of the her-2/neu promoter targeted by the  
CC triplex-forming oligonucleotide HN28ap (the phosphorothioate ester form  
CC is known as HN28apPTE) (see AAV44666). HN28ap can be used with the  
CC polycationic oligomers of the invention. The polycationic oligomers are  
CC of discrete length, and have a repeating structure of formula (I):  
CC ((REP)m-(M) r-(REP)n-(M)s)1-(REP)p (I); M = flexible spacer; r,s = 0 or 1  
CC ; m,n,p,1 = the numbers of corresponding units, where the total number of  
CC repeating units (z) in (I) is 1(m + n) + p; REP = repeating unit  
CC containing a cationic side-group (CSG) and having the structure -[Y1-Q1-  
CC CO-Y2-Q2-CO]-; Y1 = O or NR3; Y2 = O or NR4; one of Q1 and Q2 in each  
CC repeating unit = (CH2)w and the other = CHR'; w = 1-3; R',R3,R4 = H, 1-3C  
CC alkyl, a non-cationic side-group or a CSG, provided that one, and only  
CC one, CSG is present in each repeating unit. The polycationic oligomers  
CC are useful as transfecting agents for facilitating the uptake of nucleic  
CC acids into eukaryotic cells in vitro or in vivo, especially human cells,  
CC e.g. in research, diagnostics or gene therapy. The polycationic oligomer  
CC is especially used in the transfection of cancer cells, e.g. for the gene  
CC therapy treatment of prostate cancer by introduction of HN28ap. The  
CC polycationic oligomer/nucleic acid complexes can be administered in  
CC pharmaceutical compositions. The size of the polycationic oligomers can  
CC be selected to neutralise the charge of a specific nucleic acid precisely  
CC and thus facilitate its uptake. The oligomers can also be designed to  
CC have varying degrees of biodegradability or to contain a wide range of  
CC biological active moieties, e.g. for targeting or labelling  
XX  
SQ Sequence 28 BP; 9 A; 0 C; 18 G; 1 T; 0 U; 0 Other;  
Query Match 0.8%; Score 23.8; DB 1; Length 28;  
Best Local Similarity 92.6%; Pred. No. 29;  
Matches 25; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 276 CCTCTCTCTCCACCACTCTCTCTCTCTCT 302  
Db 27 CCTCTCTCTCTCCACCACTCTCTCTCTCTCT 1  
RESULT 21  
ADO30693/c  
ID ADO30693 standard; DNA; 28 BP.  
XX  
AC ADO30693;  
XX  
XX 15-JUL-2004 (first entry)  
DT  
XX Quadruplex modulator detection method test quadruplex molecule #5.  
DE  
XX ss; cytostatic; quadruplex DNA; stabilization;  
KW cell proliferative disorder; colorectal cancer; leukemia;  
KW Hodgkin's disease.  
XX  
XX Synthetic.  
OS  
XX WO2004019283-A2.  
PN  
XX 04-MAR-2004.  
PD  
XX 20-AUG-2003; 2003WO-US026267.  
PF  
XX 20-AUG-2002; 2002US-0404965P.  
PR  
XX (CYTE-) CYTERNEX INC.  
PA  
XX Ebbinghaus SW, Hurley LH, Siddiqui-Jain A, Memmott R;  
PI  
XX WPI; 2004-239051/22.  
DR  
XX Identifying molecule that modulates biological activity of native  
PT quadruplex DNA, by contacting test quadruplex DNA with candidate  
PT molecule, determining presence or absence of interaction between the  
PT molecule and test quadruplex DNA.  
XX  
XX Claim 2; Page 36; 43pp; English.  
PS  
XX

CC The invention relates to a method of identifying (M1) a molecule that  
 CC modulates biological activity of native quadruplex DNA, by contacting  
 CC test quadruplex DNA with candidate molecule, and determining presence or  
 CC absence of interaction between candidate molecule and test quadruplex  
 CC DNA, where candidate molecule that interacts with test quadruplex DNA is  
 CC identified as molecule that modulates biological activity of native  
 CC quadruplex DNA. (M1) is useful for identifying molecule that modulates  
 CC biological activity of native quadruplex DNA (claimed). (M1) is useful  
 CC for identifying molecule that modulates biological activity of native  
 CC quadruplex DNA, where the identified molecule stabilizes quadruplex  
 CC structure which can exert a therapeutic effect for certain cell  
 CC proliferative disorders e.g., colorectal cancer, leukemia's, Hodgkin's  
 CC disease, etc. This sequence corresponds to a test quadruplex molecule  
 CC used in the method of the invention.

XX  
 SQ Sequence 28 BP; 9 A; 0 C; 18 G; 1 T; 0 U; 0 Other;

Query Match 0.8%; Score 23.8; DB 1; Length 28;  
 Best Local Similarity 92.6%; Pred. No. 29;  
 Matches 25; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 276 CCTCTCTCTCCACACCTCTCTCTCTCT 302  
 |||||  
 Db 27 CCTCTCTCTCCACCTCTCTCTCTCTCT 1  
 |||||

RESULT 22  
 ADZ67890/c  
 ID ADZ67890 standard; DNA; 28 BP.  
 XX  
 AC ADZ67890;  
 XX  
 DT 14-JUL-2005 (first entry)  
 XX  
 DE Quadruplex-forming DNA sequence from HER2/neu.  
 XX  
 KW Quadruplex DNA; cancer; neoplasm; cytostatic; viral infection; virucide;  
 KW antiangiogenic; anorectic; ds.  
 XX  
 OS Unidentified.  
 XX  
 PN WO2005037997-A2.  
 XX  
 PD 28-APR-2005.  
 XX  
 PF 07-OCT-2004; 2004WO-US033401.  
 XX  
 PR 14-OCT-2003; 2003US-0511250P.  
 XX  
 PA (CYLE-) CYLENE PHARM INC.  
 XX  
 PI Siddiqui-Jain A, Streiner N;  
 XX  
 DR WPI; 2005-315695/32.  
 XX  
 PT Identifying a quadruplex interacting molecule, useful for ameliorating a  
 PT cellular proliferative disorder, e.g. cancer, or a viral infection,  
 PT comprises contacting a test molecule with G-quadruplex nucleic acid.  
 XX  
 PS Claim 17; SEQ ID NO 14; 35pp; English.

XX The invention provides a method for identifying a quadruplex interacting  
 CC molecule. This involves: (a) contacting (i) a test molecule with a first  
 CC detectable nucleic acid comprising a G-quadruplex, and (ii) a second  
 CC nucleic acid; and (b) determining whether the second nucleic acid  
 CC competes for the test molecule, where competition identifies the test  
 CC molecule as a candidate molecule. Step (b) comprises detecting the amount  
 CC of the first nucleic acid to form a quadruplex and the amount of the  
 CC first nucleic acid not forming a quadruplex and determining the  
 CC concentration of the second nucleic acid required to compete for about  
 CC half of the test molecule. The second nucleic acid is plasmid DNA, short  
 CC duplex DNA, random single-stranded DNA that does not form a quadruplex  
 CC structure, single-stranded DNA that forms the same or a similar

CC quadruplex structure as the quadruplex structure in the first nucleic  
 CC acid, or single-stranded DNA that forms a quadruplex structure different  
 CC from the quadruplex structure in the first nucleic acid, a triplex  
 CC sequence or a duplex sequence in the Z conformation. The test molecule  
 CC may be a polypeptide linked to a phage or expressed by a microorganism.  
 CC transfected with a nucleic acid from an expression library. A compound  
 CC identified by the method of the invention is used in a claimed method for  
 CC ameliorating a cellular proliferative disorder, especially a cancer where  
 CC cellular proliferation is reduced or cell death is induced, and in a  
 CC claimed method for ameliorating a viral infection. The compound may also  
 CC be used to treat conditions such as angiogenesis, an adipocyte-related  
 CC disorder such as obesity, and leukemia. The present sequence is that of a  
 CC quadruplex nucleic acid from the HER2/neu gene. In a claimed method, the  
 CC quadruplex nucleic acid comprises a nucleotide sequence selected from 17  
 CC nucleotide sequences ADZ67877-ADZ67893 fully defined in the specification  
 CC and including the present sequence.

XX  
 SQ Sequence 28 BP; 9 A; 0 C; 18 G; 1 T; 0 U; 0 Other;

Query Match 0.8%; Score 23.8; DB 1; Length 28;  
 Best Local Similarity 92.6%; Pred. No. 29;  
 Matches 25; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 276 CCTCTCTCTCCACACCTCTCTCTCTCT 302  
 |||||  
 Db 27 CCTCTCTCTCCACCTCTCTCTCTCTCT 1  
 |||||

RESULT 23  
 ADO30690/c  
 ID ADO30690 standard; DNA; 27 BP.  
 XX  
 AC ADO30690;  
 XX  
 DT 15-JUL-2004 (first entry)  
 XX  
 DE Quadruplex modulator detection method test quadruplex molecule #2.  
 XX  
 KW ss; cytostatic; quadruplex DNA; stabilization;  
 KW cell proliferative disorder; colorectal cancer; leukemia;  
 KW Hodgkin's disease.  
 XX  
 OS Synthetic.  
 XX  
 PN WO2004019283-A2.  
 XX  
 PD 04-MAR-2004.  
 XX  
 PF 20-AUG-2003; 2003WO-US026267.  
 XX  
 PR 20-AUG-2002; 2002US-0404965P.  
 XX  
 PA (CYTE-) CYTEREX INC.  
 XX  
 PI Ebbsinghaus SW, Hurley LH, Siddiqui-Jain A, Memmott R;  
 XX  
 DR WPI; 2004-239051/22.  
 XX  
 PT Identifying molecule that modulates biological activity of native  
 PT quadruplex DNA, by contacting test quadruplex DNA with candidate  
 PT molecule, determining presence or absence of interaction between the  
 PT molecule and test quadruplex DNA.  
 XX  
 PS Claim 2; Page 36; 43pp; English.

XX The invention relates to a method of identifying (M1) a molecule that  
 CC modulates biological activity of native quadruplex DNA, by contacting  
 CC test quadruplex DNA with candidate molecule, and determining presence or  
 CC absence of interaction between candidate molecule and test quadruplex  
 CC DNA, where candidate molecule that interacts with test quadruplex DNA is  
 CC identified as molecule that modulates biological activity of native  
 CC quadruplex DNA. (M1) is useful for identifying molecule that modulates  
 CC biological activity of native quadruplex DNA (claimed). (M1) is useful



```

DE Non-antisense GRO nucleolin-binding oligonucleotide GRO29A.
XX
XX Diagnosis; therapy; tumor; cancer; neoplasm; cytostatic; nucleolin; ss;
KW guanine-rich oligonucleotide; gene silencing; RNA interference; melanoma;
KW lymphoma; sarcoma; glioma; leukemia; hepatocellular carcinoma.
XX
XX OS Synthetic.
XX
XX US2005053607-A1.
XX
XX PN 10-MAR-2005.
XX
XX PD
XX
XX PF 09-OCT-2003; 2003US-00683480.
XX
XX PR 08-APR-2002; 2002US-00118854.
XX
XX PA (BATE/) BATES P J.
XX (MILL/) MILLER D M.
XX PA (TREN/) TRENT J O.
XX PA (XUX/) XU X.
XX
XX PI Bates PJ, Miller DM, Trent JO, Xu X;
XX WPI; 2005-213006/22.
XX
XX DR
XX
XX PT Treating cancer in a subject comprises administering to the subject a
XX therapeutically effective amount of an anti-nucleolin agent and a
XX carrier.
XX
XX PS Disclosure; SEQ ID NO 33; 32pp; English.
XX
XX CC The invention relates to treating cancer in a subject comprises
XX administering to the subject a therapeutically effective amount of an
XX anti-nucleolin agent and a carrier. Also included is a pharmaceutical
XX composition comprising a nucleolin antibody or an inhibitory RNA against
XX nucleolin, and a carrier. The method and antibodies, RNA and composition
XX are useful for treating cancer, such as melanoma, lymphoma, plasmocytoma,
XX sarcoma, glioma, thymoma, leukemia, hepatoma, or breast, prostate, colon,
XX liver, esophageal, brain, lung, ovary, or cervical cancer. The present
XX sequence is a control GRO (guanine-rich oligonucleotide) for GRO's that
XX bind to nucleolin (thereby inhibiting cancer cell growth).
XX
XX SQ Sequence 26 BP; 0 A; 17 C; 0 G; 9 T; 0 U; 0 Other;
Query Match 0.7%; Score 21.2; DB 1; Length 26;
Best Local Similarity 88.5%; Pred. No. 51;
Matches 23; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Oy 273 CCTCTCTCTCTCCACCACTCTCTCC 298
Db 1 CCTCTCTCTCTCTCTCTCTCTCTCTCC 26

RESULT 28
ADZ58652
ID ADZ58652 standard; DNA; 26 BP.
XX
XX AC ADZ58652;
XX
XX DT 14-JUL-2005 (first entry)
XX
XX DE Inflammation treatment-related GRO O oligonucleotide SeqID34.
XX
XX KW inflammation; antiinflammatory; analgesic; gynecological; hepatotropic;
KW neuroprotective; nontropic; antiarthritic; antirheumatic;
KW gastrointestinal-Gen.; antidiabetic; gene therapy; dysmenorrhea;
KW alcoholic hepatitis; pancreatitis; Alzheimers disease;
KW rheumatoid arthritis; asthma; gastrointestinal disease; psoriasis;
KW atherosclerosis; Crohns disease; ulcerative colitis; GRO O; ss.
XX
XX OS Unidentified.
XX
XX PN WO2005037323-A2.

```

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RESULT 26
ADI28737
ID ADI28737 standard; DNA; 26 BP.
XX
XX AC ADI28737;
XX
XX DT 22-APR-2004 (first entry)
XX
XX DE Oligonucleotide GRO O.
XX
XX KW Apoptosis; nucleolin; AIDS; cancer; neurodegenerative disease;
KW autoimmune disease; infection; diagnosis; ss.
XX
XX OS Synthetic.
XX
XX PN WO2004003554-A1.
XX
XX PD 08-JAN-2004.
XX
XX PF 26-JUN-2003; 2003WO-US020167.
XX
XX PR 26-JUN-2002; 2002US-0392143P.
XX
XX PA (UYLO-) UNIV LOUISVILLE RES FOUND INC.
XX (BATE/) BATES P J.
XX PA (MIY/) MI Y.
XX
XX PI Bates PJ, Mi Y;
XX
XX DR WPI; 2004-083166/08.
XX
XX CC Detecting apoptosis comprises preparing a sample from which cells have
XX been removed and detecting at least one of nucleolin and PARP-I in the
XX sample.
XX
XX PS Disclosure; SEQ ID NO 33; 66pp; English.
XX
XX CC The present sequence is that of oligonucleotide GRO O, which can be used
XX as a control oligonucleotide in the method of the invention. The method
XX is for the detection of apoptosis. It involves preparing a sample from
XX which cells have been removed, and detecting nucleolin and/or poly(ADP-
XX ribose) polymerase (PARP-1) in the sample, where the sample is blood,
XX serum, plasma, tissue, tissue culture medium or sputum. Detection of
XX nucleolin involves detection of a complex between nucleolin and a
XX nucleolin binding molecule, preferably an anti-nucleolin antibody or a
XX guanosine-rich oligonucleotide. The method allows detection of excessive
XX apoptosis in a subject suspected of having AIDS, a neurodegenerative
XX disease, an ischaemic injury, an autoimmune disease, a tumour, a cancer
XX (especially endocervical adenocarcinoma, prostatic carcinoma, breast
XX cancer, leukaemia and non-small cell lung carcinoma), a viral infection,
XX an acute inflammatory condition or sepsis (all claimed).
XX
XX SQ Sequence 26 BP; 0 A; 17 C; 0 G; 9 T; 0 U; 0 Other;
Query Match 0.7%; Score 21.2; DB 1; Length 26;
Best Local Similarity 88.5%; Pred. No. 51;
Matches 23; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Oy 273 CCTCTCTCTCTCCACCACTCTCTCC 298
Db 1 CCTCTCTCTCTCTCTCTCTCTCTCTCC 26

RESULT 27
ADY53929
ID ADY53929 standard; DNA; 26 BP.
XX
XX AC ADY53929;
XX
XX DT 19-MAY-2005 (first entry)
XX
XX PN

```

XX PD 28-APR-2005.  
 XX PF 08-OCT-2004; 2004WO-US033185.  
 XX PR 10-OCT-2003; 2003US-0510466P.  
 XX PA (UYLO-) UNIV LOUISVILLE RES FOUND INC.  
 XX PI Bates PJ, Girvan AC, Barve SS;  
 XX DR WPI; 2005-315628/32.  
 XX PT Treating inflammation, e.g. acute or chronic inflammation such as  
 PT rheumatoid arthritis, asthma, psoriasis, and atherosclerosis, in a  
 PT patient comprises administering to the patient a composition comprising a  
 PT GRO.  
 XX XX  
 PS Disclosure; SEQ ID NO 34; 60pp; English.  
 XX XX  
 CC This invention relates to a novel method for treating inflammation in a  
 CC patient which comprises administering to the patient a composition  
 CC comprising a GRO (guanosine-rich oligonucleotide). The invention may be  
 CC useful for the development of compounds with an antiinflammatory,  
 CC analgesic, gynecological, hepatotropic, neuroprotective, nootropic,  
 CC antiarthritic, antirheumatic, gastrointestinal-Gen. or antitumor activity  
 CC whilst the disclosed sequence may prove useful for gene therapy. The  
 CC methods are useful for treating inflammation associated with an acute  
 CC inflammatory condition. The acute inflammatory condition is selected from  
 CC primary dysmenorrhea, acute alcoholic liver disease and acute  
 CC pancreatitis. The inflammation may also be of Alzheimer's disease or  
 CC associated with a chronic inflammatory disease. The chronic inflammatory  
 CC disease is selected from rheumatoid arthritis, asthma, gastrointestinal  
 CC tract disease, psoriasis, atherosclerosis, Crohns disease, ulcerative  
 CC colitis alcohol, chronic alcoholic liver disease, non-alcoholic  
 CC steatohepatitis and chronic pancreatitis. The present sequence is that of  
 CC the oligonucleotide GRO O which was used during the development of the  
 CC novel method of the invention.  
 XX XX  
 SQ Sequence 26 BP; 0 A; 17 C; 0 G; 9 T; 0 U; 0 Other;  
 Query Match 0.7%; Score 21.2; DB 1; Length 26;  
 Best Local Similarity 88.5%; Pred. No. 51;  
 Matches 23; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 273 CCTCTCTCTCTCTCCACACCTCTCTCC 298  
 DB 1 CCTCTCTCTCTCTCTCTCTCTCTCTCTCC 26  
 RESULT 29  
 ADU28612  
 ID ADU28612 standard; DNA; 21 BP.  
 XX AC ADU28612;  
 XX DT 27-JAN-2005 (first entry)  
 XX DE Knock-down target sequence #2010.  
 XX KW ds; RNA production; protein production; drug development;  
 KW knock-down target.  
 OS Unidentified.  
 XX WO2004094636-A1.  
 XX PD 04-NOV-2004.  
 XX PF 24-APR-2003; 2003WO-EP004362.  
 XX PR 24-APR-2003; 2003WO-EP004362.  
 XX XX

PA (GALA-) GALAPAGOS GENOMICS NV.  
 PA (VSCH/) VAN DER SCHUEREN J.  
 XX PI Arts GJF, Lambrecht MJY, Djokic K, Clasen RJ, Mesic E;  
 PI Griffioen S, Bergs CJL;  
 XX DR WPI; 2004-775940/76.  
 XX XX  
 PT New knockdown sequences, useful in lowering the amount of RNA and/or  
 PT protein production in cells used in drug development process.  
 XX XX  
 PS Claim 11; SEQ ID NO 2026; 402pp; English.  
 XX XX  
 CC The invention relates to a polynucleotide comprising an RNA sequence. The  
 CC polynucleotides, vector, libraries, and method are useful in lowering the  
 CC amount of RNA and/or protein production in cells used in drug development  
 CC process. The present sequence represents a knock-down target sequence.  
 XX XX  
 SQ Sequence 21 BP; 8 A; 8 C; 2 G; 3 T; 0 U; 0 Other;  
 Query Match 0.7%; Score 21; DB 1; Length 21;  
 Best Local Similarity 100.0%; Pred. No. 42;  
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1652 ACACCGACTTCAAGAACATCC 1672  
 DB 1 ACACCGACTTCAAGAACATCC 21  
 RESULT 30  
 ADN97166  
 ID ADN97166 standard; DNA; 24 BP.  
 XX AC ADN97166;  
 XX DT 01-JUL-2004 (first entry)  
 XX DE Probe of the invention #2.  
 XX KW DNA fingerprinting; Cannabis sativa; short tandem repeat marker;  
 KW forensic identification; marijuana; probe; ss.  
 OS Synthetic.  
 XX WO2004008841-A2.  
 XX PD 29-JAN-2004.  
 XX PF 21-JUL-2003; 2003WO-US022887.  
 XX PR 19-JUL-2002; 2002US-0397179P.  
 XX XX  
 PA (UYAR-) UNIV ARIZONA.  
 PA (KEIM/) KEIM P S.  
 PA (ZINN/) ZINNAMON K.  
 XX XX  
 PI Keim PS, Zinnamon K;  
 XX XX  
 DR WPI; 2004-143139/14.  
 XX XX  
 PT New isolated nucleic acid for amplification of a short tandem repeat  
 PT located in DNA isolated from Cannabis sativa L species, useful for  
 PT forensic identification of marijuana or for linking a marijuana sample to  
 PT its plant source.  
 XX XX  
 PS Disclosure; SEQ ID NO 33; 79pp; English.  
 XX XX  
 CC The present invention relates to DNA fingerprinting for Cannabis Sativa  
 CC using short tandem repeat markers. The nucleic acid is useful for  
 CC forensic identification of marijuana or for linking a marijuana sample to  
 CC its plant source. The present sequence represents a probe of the  
 CC invention.  
 XX XX

```
SQ Sequence 24 BP; 0 A; 16 C; 0 G; 8 T; 0 U; 0 Other;
Query Match 0.7%; Score 20.8; DB 1; Length 24;
Best Local Similarity 91.7%; Pred. No. 51;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 273 CCTCTCTCTCTCCACCACTCTCT 296
DB 1 CCTCTCTCTCTCTCTCTCTCTCTCT 24

RESULT 31
ADO30689/c
ID ADO30689 standard; DNA; 23 BP.
XX
AC ADO30689;
XX
DT 15-JUL-2004 (first entry)
XX
DE Quadruplex forming molecule #2.
XX
KW ss; cytostatic; quadruplex DNA; stabilization;
KW cell proliferative disorder; colorectal cancer; leukemia;
KW Hodgkin's disease.
XX
OS Synthetic.
XX
PN WO2004019283-A2.
XX
PD 04-MAR-2004.
XX
PF 20-AUG-2003; 2003WO-US026267.
XX
PR 20-AUG-2002; 2002US-0404965P.
XX
PA (CYTE-) CYTERNEX INC.
XX
PI Ebbinghaus SW, Hurley LH, Siddiqui-Jain A, Memmott R;
XX
DR WPI; 2004-239051/22.
XX
PT Identifying molecule that modulates biological activity of native
PT quadruplex DNA, by contacting test quadruplex DNA with candidate
PT molecule, determining presence or absence of interaction between the
PT molecule and test quadruplex DNA.
XX
PS Disclosure; Page 3; 43pp; English.
XX
CC The invention relates to a method of identifying (M1) a molecule that
CC modulates biological activity of native quadruplex DNA, by contacting
CC test quadruplex DNA with candidate molecule, and determining presence or
CC absence of interaction between candidate molecule and test quadruplex
CC DNA, where candidate molecule that interacts with test quadruplex DNA is
CC identified as molecule that modulates biological activity of native
CC quadruplex DNA. (M1) is useful for identifying molecule that modulates
CC biological activity of native quadruplex DNA (claimed). (M1) is useful
CC for identifying molecule that modulates biological activity of native
CC quadruplex DNA, where the identified molecule stabilizes quadruplex
CC structure which can exert a therapeutic effect for certain cell
CC proliferative disorders e.g., colorectal cancer, leukemia's, Hodgkin's
CC disease, etc. This sequence corresponds to a test quadruplex molecule
CC used in the method of the invention.
XX
SQ Sequence 23 BP; 6 A; 0 C; 16 G; 0 T; 0 U; 1 Other;
Query Match 0.7%; Score 20.4; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 54;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 276 CCTCTCTCTCTCCACCACTCTCTCC 298
DB 23 CCTCTCTCTCTCTCTCTCTCTCTCT 1
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RESULT 32
AAQ55856
ID AAQ55856 standard; DNA; 25 BP.
XX
AC AAQ55856;
XX
DT 25-MAR-2003 (revised)
DT 25-JUL-1994 (first entry)
XX
DE Fragile X probe.
XX
KW FC; foetal cells; marker; probe; hybridise; denature; dye; label;
KW fluorescent; kit; detection; haemoglobin; rhesus; gamma globulin; NR;
KW nitrogen reductase; ss.
XX
OS Homo sapiens.
XX
PN WO9402646-A1.
XX
PD 03-FEB-1994.
XX
PF 19-JUL-1993; 93WO-US006828.
XX
PR 17-JUL-1992; 92US-00915965.
XX
PA (RERE-) RES DEV FOUND.
XX
PI Asgari M, Prashad N, Cubbage ML, Ju S, Blick M, Bresser J;
XX
DR WPI; 1994-048903/06.
XX
PT Identifying foetal cells, conc. from maternal blood, using specific
PT marker - e.g. surface antigen, before in situ hybridisation of target
PT nucleic acid to detect viral infection, genetic abnormality, etc.
XX
PS Disclosure; Page 73; 109pp; English.
XX
CC Probes (AAQ55857-873) detect regions of 3 fragments of the HUMGLBN gene
CC (AAQ64058). Bases 1-91 correspond to bases 2179-2269 of HUMGLBN bases 92
CC -314 are from 2393-2615 of HUMGLBN and bases 315-443 are from 3502-3630
CC of HUMGLBN. The probes (AAQ55854-55) were used as control, positive and
CC negative genetic testing probes. Probe (AAQ55856) was used to detect the
CC fragile X condition (Example 14) (Updated on 25-MAR-2003 to correct PN
CC field.)
XX
SQ Sequence 25 BP; 0 A; 9 C; 16 G; 0 T; 0 U; 0 Other;
Query Match 0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 63;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGCGCGCGGC 675
DB 1 CGGCAGCGCGCGCGCGCGCGCGCGGC 25

RESULT 33
AAQ85271
ID AAQ85271 standard; DNA; 25 BP.
XX
AC AAQ85271;
XX
DT 25-MAR-2003 (revised)
DT 24-AUG-1995 (first entry)
XX
DE Probe for Fragile X condition.
XX
KW Prenatal diagnosis; fragile X; probe; ss.
XX
OS Synthetic.
XX
PN WO9503431-A1.
```

```

XX 02-FEB-1995.
XX
XX PF 19-JUL-1994; 94WO-US008342.
XX
XX 19-JUL-1993; 93US-00094710.
XX
XX (APRO-) APROGENEX INC.
XX
XX Bresser J, Weber WD, Ryusaki T, Prashad N, Cubbage ML, Blick M;
XX PI Asgari M, Poindexter BJ;
XX WPI; 1995-075255/10.
XX
XX Identifying foetal cells in samples contg. maternal cells - used for
XX PT monitoring foetus status, identifying sex or detecting genetic
XX PT abnormalities or viral infection.
XX
XX PS Example; Page 75; 115pp; English.
XX
XX In the example, Fragile X Chromosome is identified in amniocytes and in
XX CC peripheral blood mononuclear cells. The 5' aminonhexyl oligos is coupled
XX CC to the fluorescent dye fluorescein. When an amplification of the CGG DNA
XX CC fragment (of the X chromosome in Xq27.3) is present, there is an increase
XX CC in the intensity of the signal. (Updated on 25-MAR-2003 to correct PN
XX CC field.) (Updated on 25-MAR-2003 to correct PI field.)
XX
XX SQ Sequence 25 BP; 0 A; 9 C; 16 G; 0 T; 0 U; 0 Other;
XX
Query Match 0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 63;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 651 CGGCAGCAGCGCGCGCGCGCGCGGC 675
Db 1 CGCGCGCGCGCGCGCGCGCGCGCGC 25
RESULT 34
AAH05267
ID AAX05267 standard; DNA; 25 BP.
XX
XX AC AAX05267;
XX
XX DT 14-APR-1999 (first entry)
XX
XX Fragile X chromosome detecting probe.
XX
XX Genetic testing; foetal cell; maternal; blood; pregnant; hybridisation;
XX KW detection; HIV, hepatitis virus; herpes virus; chromosomal abnormality;
XX KW probe; ss.
XX
XX OS Synthetic.
XX OS Homo sapiens.
XX
XX PN US5858649-A.
XX
XX PD 12-JAN-1999.
XX
XX PF 31-DEC-1996; 96US-00775609.
XX
XX 17-JUL-1992; 92US-00915765.
XX PR 19-JUL-1993; 93US-00094710.
XX PR 19-JUL-1994; 94WO-US008342.
XX PR 17-JAN-1995; 95US-00374144.
XX
XX (APRO-) APROGENEX INC.
XX
XX PI Blick M, Cubbage ML, Bresser J, Prashad N, Asgari M;
XX WPI; 1999-152096/13.
XX
XX Method for distinguishing foetal cells from adult cells in blood - based

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PT on amplification and detection of mRNA selectively expressed in foetal
PT cells.
XX
XX Example 4, 14; Col 49; 49pp; English.
XX
XX The invention relates to a method of enriching foetal cells from maternal
XX blood and for identifying such foetal cells. Foetal cells can be
XX CC distinguished from adult cells in a blood specimen by (a) treating a
XX CC blood specimen from a pregnant female to yield a mixture of cells
XX CC comprising foetal cells and adult cells; (b) amplifying one or more mRNAs
XX CC within the cells, the mRNAs being selectively expressed in target foetal
XX CC cells to be distinguished but not expressed in adult blood cells; (c)
XX CC performing in situ hybridisation on the cells under hybridising
XX CC conditions suitable to maintain cell membranes in a substantially intact
XX CC state and with a hybridisation medium comprising a detectably labelled
XX CC probe complementary to the amplified mRNA that is selectively expressed
XX CC in the target foetal cells but not expressed in adult blood cells; (d)
XX CC removing the hybridisation medium and unhybridised probe from the mixture
XX CC of cells to yield hybridised cells; and (e) detecting the labelled probe
XX CC remaining in the hybridised cells; whereby cells in which the labelled
XX CC probe is detected are identified as the target foetal cells; A second
XX CC method for determining the presence of a target nucleotide sequence in
XX CC individual foetal cells present in a cellular specimen is also provided.
XX CC The methods (especially the second) is useful for detecting HIV,
XX CC hepatitis viruses or herpes viruses in foetal cells, or for detecting
XX CC chromosomal abnormalities in foetal cells. The present sequence
XX CC represents a probe used for the detection of the Fragile X chromosome in
XX CC amniocytes and in peripheral blood mononuclear cells
XX
XX SQ Sequence 25 BP; 0 A; 9 C; 16 G; 0 T; 0 U; 0 Other;
XX
Query Match 0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 63;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 651 CGGCAGCAGCGCGCGCGCGCGCGGC 675
Db 1 CGCGCGCGCGCGCGCGCGCGCGCGC 25
RESULT 35
AAH62230
ID AAH62230 standard; DNA; 21 BP.
XX
XX AC AAH62230;
XX
XX DT 09-SEP-2004 (revised)
XX DT 12-SEP-2001 (first entry)
XX
XX Voltage gated K channel polymorphism containing DNA fragment #131.
XX
XX Single nucleotide polymorphism; SNP; human; cancer; inflammation;
XX KW heart disease; paternity testing; forensic science; ds.
XX
XX OS Homo sapiens.
XX OS Unidentified.
XX
XX Key Location/Qualifiers
XX FT variation II
XX FT /*tag= a
XX FT /standard_name= "single nucleotide polymorphism"
XX
XX WO200138576-A2.
XX
XX 31-MAY-2001.
XX
XX 17-NOV-2000; 2000WO-US031639.
XX
XX 24-NOV-1999; 99US-0167334P.
XX
XX (WHED ) WHITEHEAD INST BIOMEDICAL RES.
XX PI Cargill M, Ireland JS, Lander ES;

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XX Human NOV-associated forward primer from primer-probe set Ag3635.  
DE NOVX; cytostatic; cardiant; antiarteriosclerotic; antiasthmatic; cancer;  
KW hypotensive; cardiomyopathy; bronchial asthma; gene therapy; vaccine;  
KW human; PCR; primer; ss.  
XX Homo sapiens.  
XX WO200272757-A2.  
XX 19-SEP-2002.  
XX 08-MAR-2002; 2002WO-US006908.  
XX 08-MAR-2001; 2001US-0274101P.  
PR 08-MAR-2001; 2001US-0274194P.  
PR 08-MAR-2001; 2001US-0274281P.  
PR 08-MAR-2001; 2001US-0274322P.  
PR 09-MAR-2001; 2001US-0274849P.  
PR 12-MAR-2001; 2001US-0275235P.  
PR 13-MAR-2001; 2001US-0275578P.  
PR 13-MAR-2001; 2001US-0275579P.  
PR 14-MAR-2001; 2001US-0275601P.  
PR 16-MAR-2001; 2001US-0276766P.  
PR 19-MAR-2001; 2001US-0276994P.  
PR 20-MAR-2001; 2001US-0277239P.  
PR 20-MAR-2001; 2001US-0277321P.  
PR 20-MAR-2001; 2001US-0277327P.  
PR 21-MAR-2001; 2001US-0277791P.  
PR 22-MAR-2001; 2001US-0277833P.  
PR 23-MAR-2001; 2001US-0278152P.  
PR 26-MAR-2001; 2001US-0278894P.  
PR 27-MAR-2001; 2001US-0278999P.  
PR 27-MAR-2001; 2001US-0279036P.  
PR 28-MAR-2001; 2001US-0279344P.  
PR 30-MAR-2001; 2001US-0279388P.  
PR 30-MAR-2001; 2001US-0279959P.  
PR 30-MAR-2001; 2001US-0280333P.  
PR 02-APR-2001; 2001US-0280802P.  
PR 02-APR-2001; 2001US-0280822P.  
PR 02-APR-2001; 2001US-0280900P.  
PR 04-APR-2001; 2001US-0281194P.  
PR 13-APR-2001; 2001US-0283675P.  
PR 30-APR-2001; 2001US-0287424P.  
PR 02-MAY-2001; 2001US-0288066P.  
PR 03-MAY-2001; 2001US-0288342P.  
PR 03-MAY-2001; 2001US-0288528P.  
PR 15-MAY-2001; 2001US-0291190P.  
PR 16-MAY-2001; 2001US-0291099P.  
PR 16-MAY-2001; 2001US-0291240P.  
PR 30-MAY-2001; 2001US-0294485P.  
PR 31-MAY-2001; 2001US-0294889P.  
PR 31-MAY-2001; 2001US-0294899P.  
PR 18-JUN-2001; 2001US-0299027P.  
PR 19-JUN-2001; 2001US-0299303P.  
PR 19-JUN-2001; 2001US-0299310P.  
PR 10-JUL-2001; 2001US-0304354P.  
PR 31-JUL-2001; 2001US-0309198P.  
PR 16-AUG-2001; 2001US-0312903P.  
PR 10-SEP-2001; 2001US-0318462P.  
PR 12-SEP-2001; 2001US-0318770P.  
PR 27-SEP-2001; 2001US-0325430P.  
PR 27-SEP-2001; 2001US-0325681P.  
PR 18-OCT-2001; 2001US-0330380P.  
PR 31-OCT-2001; 2001US-0335301P.  
PR 14-NOV-2001; 2001US-0332172P.  
PR 14-NOV-2001; 2001US-0332271P.  
PR 14-NOV-2001; 2001US-0332272P.  
PR 14-NOV-2001; 2001US-0333184P.  
PR 14-NOV-2001; 2001US-0333272P.  
PR 21-NOV-2001; 2001US-0332094P.

PR 03-DEC-2001; 2001US-0337426P.  
PR 03-DEC-2001; 2001US-0338092P.  
PR 04-DEC-2001; 2001US-0337185P.  
PR 03-JAN-2002; 2002US-0345705P.  
PR 07-MAR-2002; 2002US-00092900.  
XX (CURA-) CURAGEN CORP.  
XX Padigaru M, Spytek KA, Shenoy SG, Taupier RJ, Pena CEA, Li L;  
PI Zernhusen BD, Gusev V, Ji W, Gorman L, Miller CE, Kekuda R;  
PI Patturajan M, Gangolli E, Vernet CAM, Guo X, Tchernev V;  
PI Fernandes ER, Casman SJ, Malyankar UM, Gerlach V, Liu Y, Anderson D;  
PI Spaderna SK, Catterton E, Burgess C, Leite M, Zhong H, Alsobrook JP;  
PI Lepley DM, Rieger DK;  
XX WPI; 2002-723332/78.  
XX NOVX polypeptides and polynucleotides, useful for preventing or treating  
PR a disorder associated with aberrant NOVX expression or activity e.g.,  
PT cancer, hypertension, atherosclerosis, cardiomyopathy or bronchial  
PT asthma.  
XX Example C; Page 1042; 1103pp; English.  
XX This invention describes novel human NOVX polypeptides which have  
CC cytotatic, cardiant, antiarteriosclerotic, antiasthmatic and hypotensive  
CC activity. Pharmaceutical compositions comprising the NOVX proteins or  
CC nucleic acid molecules or NOVX antibodies are useful for preventing or  
CC treating a disorder associated with aberrant NOVX expression or activity  
CC e.g. cancer, hypertension, atherosclerosis, cardiomyopathy or bronchial  
CC asthma. The products of the invention can be used for gene therapy or in  
CC a vaccine. ABX13460-ABX13462 and ABX97186-ABX97593 represent PCR primers  
CC and probes used in the amplification and isolation of the NOVX  
CC polynucleotides represented in ABX97008-ABX97185 which encode the  
CC polypeptides represented in ABU65041-ABU65218  
XX SQ Sequence 22 BP; 7 A; 7 C; 2 G; 6 T; 0 U; 0 Other;  
Query Match 0.7%; Score 19.4; DB 1; Length 22;  
Best Local Similarity 95.2%; Pred. No. 66;  
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1658 ACTTCAAGAACATCCCATCG 1678  
Db 2 ACTTCAAGAACATCCCATG 22  
RESULT 39  
ADN62464  
ID ADN62464 standard; DNA; 22 BP.  
XX AC ADN62464;  
XX 01-JUL-2004 (first entry)  
XX Human NOV120a RTQ-PCR forward primer.  
XX Human; ss; PCR; NOVX; diabetes; obesity; infectious disease; anorexia;  
KW cancer-associated cachexia; cancer; neurodegenerative disorder;  
KW Alzheimer's disease; Parkinson's disease; immune disorder;  
KW haematopoietic disorder; dyslipidaemia; chronic disease; primer; RTQ-PCR;  
KW real time quantitative PCR.  
XX Homo sapiens.  
XX US2004043382-A1.  
XX 04-MAR-2004.  
XX 07-MAR-2002; 2002US-00092900.  
XX 08-MAR-2001; 2001US-0274191P.  
PR 08-MAR-2001; 2001US-0274194P.



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RESULT 40
AD203835/C
ID AD203835 standard; DNA; 24 BP.
XX
XX AD203835;
AC
XX
XX 16-JUN-2005 (first entry)
DT
XX
XX PCR primer Ile3 for metabolic engineering by homologous recombination.
DE
XX
XX recombination; thymidine kinase; selectable marker;
KW
KW metabolic engineering; metabolism; PCR;
KW primer used in the method of the invention.; ss.
XX
XX Unidentified.
OS
XX
XX FR2860517-A1.
PN
XX
XX 08-APR-2005.
PD
XX
XX 03-OCT-2003; 2003FR-00011630.
PF
XX
XX 03-OCT-2003; 2003FR-00011630.
PR
XX
XX (EVOL-) EVOLGIC SA.
PA
XX
XX Marliere P, Doring V, Pezo V;
PI
XX
XX WPI; 2005-265682/28.
DR
XX
XX Targeted alteration of the bacterial genome, useful e.g. for creating new
PT metabolic pathways, comprises double homologous recombination using
PT thymidine kinase as a selection marker, useful in analyzing the function
PT of genes and proteins.
XX
XX Example 1; SEQ ID NO 5; 34pp; French.
PS
XX
XX The invention relates to a method for targeted alteration of the genome
CC of a bacterium by double homologous recombination comprising: (a)
CC introducing into a bacterium that is deficient for thymidine kinase (TK)
CC activity a genetic construct (GC) comprising: (i) at least one region (R)
CC with a sequence homologous to a selected genomic segment that is to be
CC replaced, where R is long enough to support homologous recombination (HR)
CC ; (ii) a positive selection marker (PSM); and (iii) a negative counter-
CC selection marker (NSM) that includes a gene encoding TK; (b) growing the
CC bacteria under selection conditions for PSM, and selecting cells that
CC include PSM inserted into the chromosome; and (c) growing the selected
CC cells in presence of a nucleoside analog (I), metabolizable by TK, and
CC selecting bacteria that have survived, or can grow, in presence of (I),
CC i.e. cells that have an altered genome. The method is used to create new
CC metabolic pathways in bacteria; to analyze the function of genes and
CC proteins; and to screen nucleic acid libraries. The method is efficient;
CC reliable; applicable to many different bacteria and suitable for
CC automation. This sequence correspond to a PCR primer used in the method
CC of the invention.
XX
XX Sequence 24 BP; 0 A; 16 C; 8 G; 0 T; 0 U; 0 Other;
SQ
Query Match 0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 76;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 647 GCAGCGGCGACGACGCGCGCGCGG 670
||| ||||| ||||| ||||| |||||
Db 24 GCGGCGGCGCGCGCGCGCGCGGCG 1

RESULT 41
AD26143
ID ADT26143 standard; RNA; 19 BP.
XX
XX ADT26143;
AC
XX
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DT 27-JAN-2005 (first entry)
XX
XX siRNA B for potassium channel subunit Kv3.4.
DE
XX
XX RNA interference; gene silencing; ds; potassium channel;
KW fast spiking neuron; Parkinson's disease; Kv3.4; neuronal ion channel;
KW siRNA; small interfering RNA; neurological condition; epilepsy; hearing;
KW learning and memory disorder.
XX
XX Rattus rattus.
OS
XX
XX US2004220082-A1.
PN
XX
XX 04-NOV-2004.
PD
XX
XX 21-JAN-2004; 2004US-00761557.
PF
XX
XX 21-JAN-2003; 2003US-0441375P.
PR
XX
XX (NOUN ) UNIV NORTHWESTERN.
PA
XX
XX Surmeier DJ, Tkatch T, Baranauskas G;
PI
XX
XX WPI; 2004-774947/76.
DR
XX
XX Inhibiting the ability of a fast-spiking neuronal cell to discharge at a
PT high rate by inhibiting Kv3.4 activity, useful for treating Parkinson's
PT disease and other neurological conditions.
PT
XX
XX Example 6; SEQ ID NO 2; 27pp; English.
PS
XX
XX The invention relates to inhibiting the ability of a fast-spiking
CC neuronal cell to discharge at a high rate comprising providing a compound
CC capable of inhibiting Kv3.4 activity (potassium channel subunit) to a
CC cell expressing Kv3 channels comprising a Kv3.4 subunit (especially the
CC Kv3.4a subunit), where the high rate of discharge is inhibited. Also
CC included are a method of manipulating neuronal ion channels (comprising
CC transfecting a fast-spiking neuronal cell with a vector encoding an siRNA
CC (small interfering RNA) directed against an mRNA encoding a Kv3.4 protein
CC where the siRNA is capable of inhibiting Kv3.4 expression in the cell), a
CC composition comprising an siRNA construct capable of inhibiting
CC expression of a Kv3.4 subunit in a neuronal cell and a method for
CC screening for compounds that inhibit the activity of a Kv3.4 protein
CC (comprising providing a cell expressing Kv3.4 protein, and a test
CC compound, and detecting the activity of the Kv3.4 protein in the presence
CC of the test compound). The method is useful for manipulating ion
CC channels, in particular for treating Parkinson's disease and other
CC neurological conditions, such as epilepsy, hearing, learning and memory
CC disorders. The present sequence is an siRNA targeting nucleotides 1607-
CC 1625 (relative to the start codon) of the rat Kv3.4 mRNA.
XX
XX Sequence 19 BP; 8 A; 5 C; 5 G; 1 T; 0 U; 0 Other;
SQ
Query Match 0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 61;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2006 GGAAACGAGCAGACTCCAA 2024
||||| ||||| ||||| |||||
Db 1 GGAAACGAGCAGACTCCAA 19

RESULT 42
ADT26144
ID ADT26144 standard; RNA; 19 BP.
XX
XX ADT26144;
AC
XX
XX 27-JAN-2005 (first entry)
DT
XX
XX siRNA C for potassium channel subunit Kv3.4.
DE
XX
XX RNA interference; gene silencing; ds; potassium channel;
```

KW fast spiking neuron; Parkinson's disease; Kv3.4; neuronal ion channel;  
 KW siRNA; small interfering RNA; neurological condition; epilepsy; hearing;  
 XX learning and memory disorder.

OS Rattus rattus.

XX US2004220082-A1.

XX 04-NOV-2004.

XX 21-JAN-2004; 2004US-00761557.

XX 21-JAN-2003; 2003US-0441375P.

XX (NOUN ) UNIV NORTHWESTERN.

XX Surmeier DJ, Tkatch T, Baranauskas G;

XX WPI; 2004-774947/76.

XX Inhibiting the ability of a fast-spiking neuronal cell to discharge at a  
 PT high rate by inhibiting Kv3.4 activity, useful for treating Parkinson's  
 PT disease and other neurological conditions.

XX Example 6; SEQ ID NO 3; 27pp; English.

XX The invention relates to inhibiting the ability of a fast-spiking  
 CC neuronal cell to discharge at a high rate comprising providing a compound  
 CC capable of inhibiting Kv3.4 activity (potassium channel subunit) to a  
 CC cell expressing Kv3 channels comprising a Kv3.4 subunit (especially the  
 CC Kv3.4a subunit), where the high rate of discharge is inhibited. Also  
 CC included are a method of manipulating neuronal ion channels (comprising  
 CC transfecting a fast-spiking neuronal cell with a vector encoding an siRNA  
 CC (small interfering RNA) directed against an mRNA encoding a Kv3.4 protein  
 CC where the siRNA is capable of inhibiting Kv3.4 expression in the cell), a  
 CC composition comprising an siRNA construct capable of inhibiting  
 CC expression of a Kv3.4 subunit in a neuronal cell and a method for  
 CC screening for compounds that inhibit the activity of a Kv3.4 protein  
 CC (comprising providing a cell expressing Kv3.4 protein, and a test  
 CC compound, and detecting the activity of the Kv3.4 protein in the presence  
 CC of the test compound). The method is useful for manipulating ion  
 CC channels, in particular for treating Parkinson's disease and other  
 CC neurological conditions, such as epilepsy, hearing, learning and memory  
 CC disorders. The present sequence is an siRNA targeting nucleotides 1626-  
 CC 1644 (relative to the start codon) of the rat Kv3.4 mRNA.

XX Sequence 19 BP; 6 A; 3 C; 6 G; 4 T; 0 U; 0 Other;

Query Match 0.7%; Score 19; DB 1; Length 19;  
 Best Local Similarity 100.0%; Pred. No. 61;  
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2025 GCAGAAATCGTGACGCTAAT 2043

Db 1 GCAGAAATCGTGACGCTAAT 19

RESULT 43

AAA30177

ID AAA30177 standard; DNA; 22 BP.

XX AAA30177;

XX 15-AUG-2000 (first entry)

XX PCR primer for tumour specific antigen nucleotide sequence amplification.

XX Tumour specific antigen; antibody; treatment; prevent; diagnose; tumour;  
 KW cancer; leukaemia; lymphoma; human; PCR primer; ss.

XX Homo sapiens.

XX WO200020442-A1.

XX

PD 13-APR-2000.

XX 01-OCT-1999; 99WO-JP005426.

XX 05-OCT-1998; 98JP-00282969.

XX (SUZU/) SUZUKI N.

PA (YAMA/) YAMAGUCHI M.

PA (SATO/) SATOH N.

XX Satoh N;

XX WPI; 2000-303736/26.

XX Antigenic peptides expressed in specific tumors and containing a specific  
 PT sequence and antibodies recognizing them are used for treatment and  
 PT diagnosis of cancers.

XX Example 2; Page 32; 70pp; Japanese.

XX This sequence represents a PCR primer used to amplify a human tumour  
 CC specific antigenic protein encoding nucleotide sequence. The invention  
 CC relates to tumour specific antigenic peptides containing the sequence  
 CC FSARDPK such as the protein encoded by the PCR product. The invention  
 CC also includes the DNA and RNA sequences encoding the novel peptides,  
 CC expression vectors containing the DNA or RNA, host cells transformed by  
 CC the vectors, monoclonal and polyclonal antibodies recognising the  
 CC peptides, and drug compositions for the treatment and prevention of  
 CC cancer which contain the novel antigenic peptides or antibodies. The  
 CC antibodies are used for the treatment, prevention and diagnosis of a  
 CC broad range of tumours including thyroid, breast, stomach, oesophagus,  
 CC mouth, colon, pancreas, lung, kidney, bladder, ovary, uterus, skin,  
 CC brain, liver and muscle cancers, melanoma, lymphoma and leukaemia

XX Sequence 22 BP; 7 A; 7 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 0.7%; Score 18.8; DB 1; Length 22;  
 Best Local Similarity 90.9%; Pred. No. 76;  
 Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1332 CAAGAACCTGCTCAACATCATC 1353

Db 1 CAAGAACCTGCTCAGCATCATC 22

RESULT 44

ABA99216

ID ABA99216 standard; DNA; 22 BP.

XX ABA99216;

XX 29-JUL-2002 (first entry)

XX Human tumour specific antigenic forward primer #1.

XX Proton pump inhibitor; tumour-specific antigenic peptide; cytostatic;  
 KW tumour; human; ss; PCR; primer.

XX Homo sapiens.

XX JP2001286284-A.

XX 16-OCT-2001.

XX 05-APR-2000; 2000JP-00103966.

XX 05-APR-2000; 2000JP-00103966.

XX (SATO/) SATO N.

PA (SUZU/) SUZUKI N.

PA (YAMA/) YAMAGUCHI M.

XX

DR WPI; 2002-134186/18.  
XX Gene diagnostic agent and gene treating agent for tumors comprises using  
PT tumor-specific antigen and proton pump inhibitor as antitumor agent.  
PS Disclosure; Page 28; 80pp; Japanese.  
XX This invention relates to a diagnostic agent or treating agent for  
CC tumours by using a tumour specific antigen and a proton pump inhibitor.  
CC The method is cytostatic in its action and the tumour-specific antigen  
CC peptide is useful for treating and preventing cancers. This nucleotide  
CC sequence is a primer related to the invention  
XX Sequence 22 BP; 7 A; 7 C; 4 G; 4 T; 0 U; 0 Other;  
SQ

Query Match 0.7%; Score 18.8; DB 1; Length 22;  
Best Local Similarity 90.9%; Pred. No. 76;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1332 CAAGAACCTGCTCAACATCATC 1353  
Db 1 CAAGAACCTGGTCAGCATCATC 22

RESULT 45  
ABX97565  
ID ABX97565 standard; DNA; 23 BP.  
XX  
AC ABX97565;  
XX  
DT 20-MAY-2003 (first entry)  
XX  
DE Human NOV-associated probe from primer-probe set Ag3635.  
XX  
KW NOVX; cytostatic; cardiant; antiarteriosclerotic; antiasthmatic; cancer;  
KW hypotensive; cardiomyopathy; bronchial asthma; gene therapy; vaccine;  
KW human; probe; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO200272757-A2.  
XX  
PD 19-SEP-2002.  
XX  
PF 08-MAR-2002; 2002WO-US006908.  
XX  
PR 08-MAR-2001; 2001US-0274101P.  
PR 08-MAR-2001; 2001US-0274194P.  
PR 08-MAR-2001; 2001US-0274281P.  
PR 08-MAR-2001; 2001US-0274322P.  
PR 09-MAR-2001; 2001US-0274849P.  
PR 12-MAR-2001; 2001US-0275235P.  
PR 13-MAR-2001; 2001US-0275578P.  
PR 13-MAR-2001; 2001US-0275579P.  
PR 13-MAR-2001; 2001US-0275601P.  
PR 14-MAR-2001; 2001US-0276000P.  
PR 16-MAR-2001; 2001US-0276776P.  
PR 19-MAR-2001; 2001US-0276994P.  
PR 20-MAR-2001; 2001US-0277239P.  
PR 20-MAR-2001; 2001US-0277321P.  
PR 20-MAR-2001; 2001US-0277327P.  
PR 21-MAR-2001; 2001US-0277791P.  
PR 22-MAR-2001; 2001US-0277833P.  
PR 23-MAR-2001; 2001US-0278152P.  
PR 26-MAR-2001; 2001US-0278894P.  
PR 27-MAR-2001; 2001US-0278999P.  
PR 27-MAR-2001; 2001US-0279036P.  
PR 28-MAR-2001; 2001US-0279344P.  
PR 30-MAR-2001; 2001US-0277338P.  
PR 30-MAR-2001; 2001US-0279995P.  
PR 30-MAR-2001; 2001US-0280233P.  
PR 02-APR-2001; 2001US-0280802P.  
PR 02-APR-2001; 2001US-0280822P.

PR 02-APR-2001; 2001US-0280900P.  
PR 04-APR-2001; 2001US-0281194P.  
PR 13-APR-2001; 2001US-0283675P.  
PR 30-APR-2001; 2001US-0287424P.  
PR 02-MAY-2001; 2001US-0288066P.  
PR 03-MAY-2001; 2001US-0288342P.  
PR 03-MAY-2001; 2001US-0288528P.  
PR 15-MAY-2001; 2001US-0291190P.  
PR 16-MAY-2001; 2001US-0291099P.  
PR 16-MAY-2001; 2001US-0291240P.  
PR 30-MAY-2001; 2001US-0294485P.  
PR 31-MAY-2001; 2001US-0294889P.  
PR 31-MAY-2001; 2001US-0294899P.  
PR 18-JUN-2001; 2001US-0299027P.  
PR 19-JUN-2001; 2001US-0299303P.  
PR 19-JUN-2001; 2001US-0299310P.  
PR 10-JUL-2001; 2001US-0304354P.  
PR 31-JUL-2001; 2001US-0309198P.  
PR 16-AUG-2001; 2001US-0312903P.  
PR 10-SEP-2001; 2001US-0318462P.  
PR 12-SEP-2001; 2001US-0318770P.  
PR 27-SEP-2001; 2001US-0325430P.  
PR 27-SEP-2001; 2001US-0325681P.  
PR 18-OCT-2001; 2001US-0330380P.  
PR 31-OCT-2001; 2001US-0335301P.  
PR 14-NOV-2001; 2001US-0332172P.  
PR 14-NOV-2001; 2001US-0332271P.  
PR 14-NOV-2001; 2001US-0332272P.  
PR 14-NOV-2001; 2001US-0333184P.  
PR 14-NOV-2001; 2001US-0333272P.  
PR 21-NOV-2001; 2001US-0332094P.  
PR 03-DEC-2001; 2001US-0337426P.  
PR 03-DEC-2001; 2001US-0336092P.  
PR 04-DEC-2001; 2001US-0337185P.  
PR 03-JAN-2002; 2002US-0345705P.  
PR 07-MAR-2002; 2002US-00092900.  
XX  
XX (CURA-) CURAGEN CORP.  
XX  
XX Padigaru M, Spytek KA, Shenoy SG, Taupier RJ, Pena CEA, Li L;  
PI Zehrusen BD, Gusev V, Ji W, Gorman L, Miller CE, Kekuda R;  
PI Patturajan M, Gangolli E, Vernet CAM, Guo X, Tchernev V;  
PI Fernandes ER, Casman SJ, Malyankar UM, Gerlach V, Liu Y, Anderson D;  
PI Spaderna SK, Catterton E, Burgess C, Leite M, Zhong H, Alsobrook JP;  
PI Lepley DM, Rieger DK;  
XX  
XX WPI; 2002-723332/78.  
XX  
XX NOVX polypeptides and polynucleotides, useful for preventing or treating  
PT a disorder associated with aberrant NOVX expression or activity e.g.,  
PT cancer, hypertension, atherosclerosis, cardiomyopathy or bronchial  
PT asthma.  
XX  
XX Example C; Page 1042; 1103pp; English.  
XX  
XX This invention describes novel human NOVX polypeptides which have  
CC cytosolic, cardiant, antiarteriosclerotic, antiasthmatic and hypotensive  
CC activity. Pharmaceutical compositions comprising the NOVX proteins or  
CC nucleic acid molecules or NOVX antibodies are useful for preventing or  
CC treating a disorder associated with aberrant NOVX expression or activity  
CC e.g. cancer, hypertension, atherosclerosis, cardiomyopathy or bronchial  
CC asthma. The products of the invention can be used for gene therapy or in  
CC a vaccine. ABX13460-ABX13462 and ABX97186-ABX97593 represent PCR primers  
CC and probes used in the amplification and isolation of the NOVX  
CC polynucleotides represented in ABX97008-ABX97185 which encode the  
CC polypeptides represented in ABU65041-ABU65218. The probes described in  
CC the invention are modified at the 5'-end by TET and the 3'-end by TAMRA  
XX  
XX Sequence 23 BP; 4 A; 8 C; 6 G; 5 T; 0 U; 0 Other;  
SQ

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 80;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;



CC determining the presence or amount of the polypeptide or the nucleic acid  
CC molecule in a sample, methods for determining the presence of or  
CC predisposition to a disease associated with altered levels of expression  
CC of the above polypeptide or nucleic acid molecule in a first mammalian  
CC subject, a method for identifying an agent that binds to the above  
CC polypeptide, a method for identifying a potential therapeutic agent for  
CC use in the treatment of a pathology that is related to aberrant  
CC expression or physiological interactions of the polypeptide, a method of  
CC screening for a modulator of activity or of latency or predisposition to  
CC a pathology associated with the polypeptide and a method for modulating  
CC the activity of the polypeptide cited above. The composition and methods  
CC are useful for diagnosing, preventing or treating diseases such as  
CC diabetes, obesity, infectious diseases, anorexia, cancer-associated  
CC cachexia, cancer, neurodegenerative disorders like Alzheimer's disease or  
CC Parkinson's disease, immune disorders, haematopoietic disorders,  
CC dyslipidaemias, and other chronic diseases. These may also be used in  
CC chromosome mapping, tissue typing, preventive medicine and  
CC pharmacogenomics. The polypeptides are also useful as vaccines. The  
CC present sequence is an RTQ-PCR (real time quantitative PCR) probe used to  
CC assay tissue specific expression of a NOVX mRNA.

XX  
SQ Sequence 23 BP; 4 A; 8 C; 6 G; 5 T; 0 U; 0 Other;  
Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 80;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1691 CTGTGTCACCATGACACGCT 1712  
|||||  
Db 1 CTGTGTCACCATGACGACCT 22

RESULT 47  
ABD22301/c  
ID ABD22301 standard; DNA; 20 BP.

AC ABD22301;

XX 29-JUL-2004 (first entry)

XX Human stannocalcin-derived oligo SEQ ID 1313.

DE Human; antisense; bronchoconstriction; allergy; hyposecretion; pain;  
KW respiratory tract inflammation; adenosine sensitivity; lung; cancer;  
KW surfactant depletion; antiallergic; antiinflammatory; antiasthmatic;  
KW analgesic; hypotensive; immunosuppressive; cytosstatic; cystic fibrosis;  
KW beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;  
KW respiratory distress syndrome; allergic rhinitis; pulmonary hypertension;  
KW emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;  
KW pulmonary transplantation rejection; ss; primer.

XX Homo sapiens.

OS

XX WO200285309-A2.

PN 31-OCT-2002.

XX 23-APR-2002; 2002WO-US013143.

XX 24-APR-2001; 2001US-0286036P.

XX (EPIG-) EPTGENESIS PHARM INC.

XX Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;

XX Miller S, Tang L, Shahabuddin S;

XX WPI; 2003-093058/08.

XX Pharmaceutical composition for treating asthma, has antisense

PT oligonucleotide containing less percentage of adenosine, targeted to

PT nucleic acids associated with lung airway or lung dysfunction, and

XX bronchodilating agent.

PS Claim 15; SEQ ID NO 1313; 763bp; English.

XX This invention describes a novel composition (a) a first active agent,  
CC comprising oligonucleotides, effective for alleviating  
CC bronchoconstriction, respiratory tract inflammation, allergies and  
CC reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,  
CC surfactant depletion or hyposecretion, when administered to a mammal. The  
CC oligonucleotides are derived from a gene encoding or regulating  
CC expression of a target polypeptide associated with lung airway or lung  
CC dysfunction or cancer and can be anti-sense to the corresponding mRNA.  
CC The invention also describes a kit, that comprises: (a) a delivery  
CC device, in separate containers, (b) the oligonucleotides, (c)  
CC instructions for adding a carrier and for use of the kit. The composition  
CC of the invention has antiallergic, antiinflammatory, antiasthmatic, is a  
CC analgesic, hypotensive, immunosuppressive and cytosstatic activity, is a  
CC beta-adrenergic agonist. The composition is useful for preventing or  
CC treating a respiratory, lung or malignant disease. The administered  
CC composition comprises oligo and is administered to reduce the production  
CC or availability, or to increase the degradation of the target mRNA or to  
CC reduce the amount of target polypeptide present in the lungs. The  
CC pulmonary obstruction, and/or bronchoconstriction and/or lung  
CC inflammation, allergies and/or surfactant hypoproduction are associated  
CC with a disease or condition such as pulmonary vasoconstriction,  
CC inflammation, allergies, asthma, cystic fibrosis, allergic rhinitis, pulmonary  
CC distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary  
CC hypertension, emphysema, chronic obstructive pulmonary disease, cancer.  
CC Transplantation rejection, pulmonary infections, bronchitis or cancer.  
CC The reduced adenosine content of the anti-sense oligos corresponding to  
CC thymidines present in the target RNA serves to prevent the breakdown of  
CC the oligonucleotides into products that free adenosine into the system  
CC e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to  
CC prevent any unwanted effects due to it

XX SQ Sequence 20 BP; 0 A; 8 C; 7 G; 5 T; 0 U; 0 Other;

Query Match 0.6%; Score 18.4; DB 1; Length 20;  
Best Local Similarity 95.0%; Pred. No. 75;  
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 645 CAGCAGCGGCAGCAGCGCG 664  
|||||  
Db 20 CAGCAGCGGCAGCAGCGCG 1

RESULT 48

ABD22305/c

ID ABD22305 standard; DNA; 20 BP.

XX ABD22305;

XX 29-JUL-2004 (first entry)

DT Human stannocalcin-derived oligo SEQ ID 1317.

XX Human; antisense; bronchoconstriction; allergy; hyposecretion; pain;

XX respiratory tract inflammation; adenosine sensitivity; lung; cancer;

XX surfactant depletion; antiallergic; antiinflammatory; antiasthmatic;

XX analgesic; hypotensive; immunosuppressive; cytosstatic; cystic fibrosis;

XX beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;

XX respiratory distress syndrome; allergic rhinitis; pulmonary hypertension;

XX emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;

XX pulmonary transplantation rejection; ss; primer.

XX Homo sapiens.

OS

XX WO200285309-A2.

XX 31-OCT-2002.

XX 23-APR-2002; 2002WO-US013143.

XX 24-APR-2001; 2001US-0286036P.





```
OS Homo sapiens.
XX
PN WO200285308-A2.
XX
PD 31-OCT-2002.
XX
PD 23-APR-2002; 2002WO-US013135.
XX
PD 24-APR-2001; 2001US-0286137P.
XX
PA (EPTG-) EPIGENESIS PHARM INC.
XX
PI Nyce JW, Li Y, Sandraaagra A, Katz E, Pabalan J, Aguilar D;
PI Miller S, Tang L, Shahabuddin S;
XX
DR WPI; 2003-229219/22.
XX
PT Pharmaceutical composition for treating ailments associated with impaired
PT respiration, has oligo(s) antisense to specific gene(s) or its
PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
PT ubiquinone.
XX
PS Claim 15; SEQ ID NO 1317; 872pp; English.
XX
CC The invention relates to a novel pharmaceutical composition, which has a
CC first active agent comprising an oligonucleotide antisense to the
CC initiation codon, coding region, 5' or 3' end genomic flanking regions,
CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of
CC junctions of genes encoding a polypeptide associated with lung and/or
CC nasal airway dysfunction and a second active agent comprising an
CC antiinflammatory steroid and ubiquinone. A composition of the invention
CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive,
CC immunosuppressive, and cytostatic activity. The composition may have a
CC use in antisense gene therapy. The composition is useful for treating or
CC preventing a respiratory, lung or malignant disease or condition, also
CC for enhancing the prophylactic or therapeutic respiratory effect of an
CC antiinflammatory steroid in a subject, for reducing or depleting levels
CC of, or reducing sensitivity to adenosine, reducing levels of adenosine
CC receptor, producing bronchodilation, increasing levels of ubiquinone or
CC lung surfactant in a subject's tissue, or treating bronchoconstriction,
CC lung inflammation, lung allergies, or a respiratory disease or condition.
CC Note: The sequence data for this patent is not represented in the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 20 BP; 0 A; 8 C; 7 G; 5 T; 0 U; 0 Other;

Query Match          0.6%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 75;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      645 CAGCAGCGGCGAGCGGGCG 664
      ||||| ||||| ||||| |||||
Db       20 CAGCAGCAGCAGCGGGCG 1

RESULT 51
ID ADP29168/c
ID ADP29168 standard; DNA; 21 BP.
XX
AC ADP29168;
XX
XX 12-AUG-2004 (first entry)
XX
DE Human secreted protein encoding sequence SEQ ID #1166.
XX
KW Cytostatic; Antiinflammatory; Immunosuppressive; Antibacterial; Virucide;
KW cancer; inflammatory; immune; ds; human secreted protein.
XX
OS Homo sapiens.
XX
PN WO2004035732-A2.
XX
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PD 29-APR-2004.
XX
PF 28-AUG-2003; 2003WO-US026780.
XX
PR 29-AUG-2002; 2002US-0406576P.
PR 29-AUG-2002; 2002US-0406579P.
PR 29-AUG-2002; 2002US-0406585P.
PR 29-AUG-2002; 2002US-0406588P.
PR 29-AUG-2002; 2002US-0406608P.
PR 29-AUG-2002; 2002US-0406611P.
PR 29-AUG-2002; 2002US-0406612P.
PR 29-AUG-2002; 2002US-0406616P.
PR 29-AUG-2002; 2002US-0406640P.
PR 29-AUG-2002; 2002US-0406642P.
PR 29-AUG-2002; 2002US-0406646P.
PR 29-AUG-2002; 2002US-0406653P.
PR 29-AUG-2002; 2002US-0406655P.
PR 29-AUG-2002; 2002US-0406666P.
PR 17-SEP-2002; 2002US-0410946P.
PR 17-SEP-2002; 2002US-0410947P.
PR 17-SEP-2002; 2002US-0410948P.
PR 17-SEP-2002; 2002US-0410949P.
PR 17-SEP-2002; 2002US-0410953P.
PR 17-SEP-2002; 2002US-0410957P.
PR 17-SEP-2002; 2002US-0410958P.
PR 17-SEP-2002; 2002US-0410959P.
PR 17-SEP-2002; 2002US-0410960P.
PR 17-SEP-2002; 2002US-0410961P.
PR 17-SEP-2002; 2002US-0410962P.
PR 17-SEP-2002; 2002US-0411019P.
PR 17-SEP-2002; 2002US-0411022P.
PR 17-SEP-2002; 2002US-0411023P.
PR 17-SEP-2002; 2002US-0411024P.
PR 17-SEP-2002; 2002US-0411032P.
PR 17-SEP-2002; 2002US-0411035P.
PR 17-SEP-2002; 2002US-0411037P.
PR 17-SEP-2002; 2002US-0411041P.
PR 17-SEP-2002; 2002US-0411045P.
PR 17-SEP-2002; 2002US-0411046P.
PR 17-SEP-2002; 2002US-0411048P.
PR 17-SEP-2002; 2002US-0411052P.
PR 17-SEP-2002; 2002US-0411055P.
PR 17-SEP-2002; 2002US-0411073P.
PR 17-SEP-2002; 2002US-0411082P.
PR 17-SEP-2002; 2002US-0411101P.
PR 17-SEP-2002; 2002US-0411111P.
PR 18-APR-2003; 2003US-0463700P.
PR 18-APR-2003; 2003US-0463708P.
PR 18-APR-2003; 2003US-0463716P.
PR 18-APR-2003; 2003US-0463732P.
PR 02-MAY-2003; 2003US-0467199P.
PR 02-MAY-2003; 2003US-0467201P.
PR 02-MAY-2003; 2003US-0467203P.
PR 02-MAY-2003; 2003US-0467230P.
PR 19-MAY-2003; 2003US-0471306P.
PR 19-MAY-2003; 2003US-0471336P.
PR 22-MAY-2003; 2003US-0472420P.
PR 22-MAY-2003; 2003US-0472430P.
PR 09-JUN-2003; 2003US-0476609P.
PR 09-JUN-2003; 2003US-0476641P.
PR 08-JUL-2003; 2003US-0485218P.
PR 08-JUL-2003; 2003US-0485223P.
PR 08-JUL-2003; 2003US-0485224P.
PR 08-JUL-2003; 2003US-0485325P.
PR 14-JUL-2003; 2003US-0486446P.
PR 14-JUL-2003; 2003US-0486480P.
PR 15-JUL-2003; 2003US-0486891P.
PR 15-JUL-2003; 2003US-0486960P.
PR 08-AUG-2003; 2003US-0493341P.
PR 08-AUG-2003; 2003US-0493370P.
PR 08-AUG-2003; 2003US-0493573P.
PR 08-AUG-2003; 2003US-0493577P.
XX
```

PA (FIVE-) FIVE PRIME THERAPEUTICS INC.  
 XX Williams LT, Chu K, Lee E, Hestir K, Beaurang PA, Behrens D;  
 PI Halenbeck RF, Huang MM, Kothakota S, Haishan L, Linnemann T;  
 PI Pierce K, Wang Y, Wong JGP, Wu G, Zhang H;  
 DR WPI; 2004-348438/32.  
 XX  
 PT New nucleic acid molecule for diagnosing, preventing or treating diseases  
 PT such as proliferative (e.g. cancer), inflammatory, immune, metabolic,  
 PT genetic, bacterial and viral diseases.  
 XX  
 PS Claim 1; SEQ ID NO 1166; 428pp; English.  
 XX  
 CC The present invention relates to an isolated nucleic acid molecule  
 CC encoding a polypeptide which is believed to be cytostatic.  
 CC antiinflammatory, immunosuppressive, antibacterial and virucidal. The  
 CC composition and methods are useful for diagnosing, preventing and  
 CC treating diseases such as proliferative (e.g. cancer), inflammatory,  
 CC immune, metabolic, genetic, bacterial and viral diseases. The present  
 CC sequence represents a human secreted protein encoding sequence. The  
 CC present sequence is available on WIPOWEB and is not in the specification.  
 XX  
 SQ Sequence 21 BP; 4 A; 1 C; 15 G; 1 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 18.4; DB 1; Length 21;  
 Best Local Similarity 95.0%; Pred. No. 80;  
 Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 282 CCTCCACACCTCTCTCTCC 301  
 DB 20 CTTCCCCCACCCTCTCTCTCC 1  
 RESULT 52  
 ADT26142  
 ID ADT26142 standard; RNA; 19 BP.  
 AC ADT26142;  
 XX  
 DT 27-JAN-2005 (first entry)  
 XX  
 DE siRNA A for potassium channel subunit Kv3.4.  
 XX  
 KW RNA interference; gene silencing; ds; potassium channel;  
 KW fast spiking neuron; Parkinson's disease; Kv3.4; neuronal ion channel;  
 KW siRNA; small interfering RNA; neurological condition; epilepsy; hearing;  
 KW learning and memory disorder.  
 XX  
 OS Rattus rattus.  
 XX  
 PN US2004220082-A1.  
 XX  
 PD 04-NOV-2004.  
 XX  
 PF 21-JAN-2004; 2004US-00761557.  
 XX  
 PR 21-JAN-2003; 2003US-0441375P.  
 XX  
 PA (NOUN) UNIV NORTHWESTERN.  
 XX  
 PI Surmeier DJ, Tkatch T, Baranauskas G;  
 XX  
 DR WPI; 2004-774947/76.  
 XX  
 PT Inhibiting the ability of a fast-spiking neuronal cell to discharge at a  
 PT high rate by inhibiting Kv3.4 activity, useful for treating Parkinson's  
 PT disease and other neurological conditions.  
 XX  
 PS Example 6; SEQ ID NO 1; 27pp; English.  
 XX  
 CC The invention relates to inhibiting the ability of a fast-spiking  
 CC neuronal cell to discharge at a high rate comprising providing a compound

capable of inhibiting Kv3.4 activity (potassium channel subunit) to a  
 cell expressing Kv3 channels comprising a Kv3.4 subunit (especially the  
 Kv3.4a subunit), where the high rate of discharge is inhibited. Also  
 included are a method of manipulating neuronal ion channels (comprising  
 transfecting a fast-spiking neuronal cell with a vector encoding an siRNA  
 (small interfering RNA) directed against an mRNA encoding a Kv3.4 protein  
 where the siRNA is capable of inhibiting Kv3.4 expression in the cell), a  
 composition comprising an siRNA construct capable of inhibiting  
 expression of a Kv3.4 subunit in a neuronal cell and a method for  
 screening for compounds that inhibit the activity of a Kv3.4 protein  
 (comprising providing a cell expressing Kv3.4 protein, and a test  
 compound, and detecting the activity of the Kv3.4 protein in the presence  
 of the test compound). The method is useful for manipulating ion  
 channels, in particular for treating Parkinson's disease and other  
 neurological conditions, such as epilepsy, hearing, learning and memory  
 disorders. The present sequence is an siRNA targeting nucleotides 765-783  
 (relative to the start codon) of the rat Kv3.4 mRNA.  
 XX  
 SQ Sequence 19 BP; 6 A; 3 C; 7 G; 3 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 18; DB 1; Length 19;  
 Best Local Similarity 100.0%; Pred. No. 78;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1165 CGAATGTGACGAGATC 1182  
 DB 2 CGAATGTGACGAGATC 19  
 RESULT 53  
 ADT26145  
 ID ADT26145 standard; RNA; 19 BP.  
 XX  
 AC ADT26145;  
 XX  
 DT 27-JAN-2005 (first entry)  
 XX  
 DE siRNA D for potassium channel subunit Kv3.4.  
 XX  
 KW RNA interference; gene silencing; ds; potassium channel;  
 KW fast spiking neuron; Parkinson's disease; Kv3.4; neuronal ion channel;  
 KW siRNA; small interfering RNA; neurological condition; epilepsy; hearing;  
 KW learning and memory disorder.  
 XX  
 OS Rattus rattus.  
 XX  
 PN US2004220082-A1.  
 XX  
 PD 04-NOV-2004.  
 XX  
 PF 21-JAN-2004; 2004US-00761557.  
 XX  
 PR 21-JAN-2003; 2003US-0441375P.  
 XX  
 PA (NOUN) UNIV NORTHWESTERN.  
 XX  
 PI Surmeier DJ, Tkatch T, Baranauskas G;  
 XX  
 DR WPI; 2004-774947/76.  
 XX  
 PT Inhibiting the ability of a fast-spiking neuronal cell to discharge at a  
 PT high rate by inhibiting Kv3.4 activity, useful for treating Parkinson's  
 PT disease and other neurological conditions.  
 XX  
 PS Example 6; SEQ ID NO 4; 27pp; English.  
 XX  
 CC The invention relates to inhibiting the ability of a fast-spiking  
 CC neuronal cell to discharge at a high rate comprising providing a compound  
 CC capable of inhibiting Kv3.4 activity (potassium channel subunit) to a  
 CC cell expressing Kv3 channels comprising a Kv3.4 subunit (especially the  
 CC Kv3.4a subunit), where the high rate of discharge is inhibited. Also  
 CC included are a method of manipulating neuronal ion channels (comprising  
 CC transfecting a fast-spiking neuronal cell with a vector encoding an siRNA

CC (small interfering RNA) directed against an mRNA encoding a Kv3.4 protein  
 CC where the siRNA is capable of inhibiting Kv3.4 expression in the cell), a  
 CC composition comprising an siRNA construct capable of inhibiting  
 CC expression of a Kv3.4 subunit in a neuronal cell and a method for  
 CC screening for compounds that inhibit the activity of a Kv3.4 protein  
 CC (comprising providing a cell expressing Kv3.4 protein, and a test  
 CC compound, and detecting the activity of the Kv3.4 protein in the presence  
 CC of the test compound). The method is useful for manipulating ion  
 CC channels, in particular for treating Parkinson's disease and other  
 CC neurological conditions, such as epilepsy, hearing, learning and memory  
 CC disorders. The present sequence is an siRNA targeting nucleotides 11825-  
 CC 1843 (relative to the start codon) of the rat Kv3.4 mRNA.

XX  
 SQ Sequence 19 BP; 5 A; 4 C; 7 G; 3 T; 0 U; 0 Other;

Query Match 0.6%; Score 18; DB 1; Length 19;  
 Best Local Similarity 100.0%; Pred. No. 78;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2224 GGCAGTGTGAGCCGAAA 2241

Db 1 GGCAGTGTGAGCCGAAA 18

RESULT 54

AAA59901

ID AAA59901 standard; DNA; 21 BP.

XX

AC AAA59901;

XX

DT 16-OCT-2000 (first entry)

XX

DE Human OP-1 Wt-1/Egr-1 binding site.

XX

KW Osteogenic protein-1; OP-1; morphogenic protein; human; osteoporosis;  
 KW morphogen concentration; bone metabolism disease; ss.

XX

OS Homo sapiens.

XX

PN US6071695-A.

XX

PD 06-JUN-2000.

XX

PF 07-JUN-1995; 95US-00486343.

XX

PR 21-FEB-1992; 92US-00841646.

PR

PR 01-NOV-1993; 93US-00147023.

PR

PR 07-JUN-1994; 94US-00255250.

PR

PR 23-MAY-1995; 95US-00449700.

PR

PR 24-MAY-1995; 95US-00449699.

XX

XX (CREA-) CREATIVE BIOMOLECULES INC.

PA

XX

PI Oppermann H, Ozkaynak E;

XX

XX WPI; 2000-422077/36.

XX

XX Disclosure; Col 47; 33pp; English.

XX

CC A method for screening a candidate compound for its ability to modulate  
 CC the expression of osteogenic protein-1 (OP-1) uses a cell transfected  
 CC with a nucleic acid sequence comprising a reporter gene and an upstream  
 CC non-coding sequence from OP-1. OP-1 is a tissue morphogenic protein. The  
 CC method is useful for screening compounds capable of stimulating or  
 CC inhibiting transcription and/or translation of the OP-1 gene, as well as  
 CC compounds which may be used as therapeutics for in vivo and ex vivo  
 CC mammalian applications, e.g. morphogen expression inducing compounds for  
 CC correcting and alleviating a diseased condition or to regenerate lost or

CC damaged tissue. The compounds may also be used to maintain viability of  
 CC the differentiated phenotype of cells in culture. Morphogen expression  
 CC inhibiting compounds identified by the new method can be used to modulate  
 CC the degree and/or timing of morphogen concentration. Compounds which up-  
 CC regulate levels of circulating OP-1 in vivo can be used to correct bone  
 CC metabolism diseases such as osteoporosis. This sequence represents the  
 CC TCC binding sequence or Wt-1/Egr-1 binding site sequence contained in the  
 CC upstream region of the osteogenic protein-1 (OP-1) gene. The DNA binding  
 CC proteins Wt-1 and Egr-1 bind to and control transcription of DNA  
 CC sequences at these sites

XX Sequence 21 BP; 0 A; 14 C; 0 G; 7 T; 0 U; 0 Other;

Query Match 0.6%; Score 17.8; DB 1; Length 21;

Best Local Similarity 90.5%; Pred. No. 92;

Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 275 TCCTCTCTCTCCACCACCTCC 295

Db 1 TCCTCTCTCTCTCTCTCTCC 21

RESULT 55

AAT11643

ID AAT11643 standard; DNA; 21 BP.

XX

AC AAT11643;

XX

DT 16-APR-1996 (first entry)

XX

DE WT1/EGR human TCC binding site.

XX

KW Osteogenic protein; OP-1; reporter gene; screening; identification;  
 KW intron; non-coding sequence; ss.

XX

OS Homo sapiens.

XX

PN WO9533831-A1.

XX

PD 14-DEC-1995.

XX

PF 07-JUN-1995; 95WO-US007349.

XX

PR 07-JUN-1994; 94US-00255250.

XX

XX (CREA-) CREATIVE BIOMOLECULES INC.

PA

Ozkaynak E, Oppermann H;

XX

XX WPI; 1996-040236/04.

XX

XX Isolation of compounds to modulate OP-1 expression - by monitoring  
 XX expression changes in a cell transformed to express osteogenic protein-1  
 XX and having additional steroid binding site.

XX

XX Disclosure; Page 58; 77pp; English.

XX

CC The human and murine osteogenic protein-1 (OP-1) non-coding sequences can  
 CC be used in the construction of expression vectors comprising a reporter  
 CC gene which has the non-coding sequence lying contiguous to the reporter  
 CC gene, the non-coding sequence being able to act on and affect expression  
 CC of the reporter gene when bound to by candidate compounds. The method is  
 CC used to identify compounds capable of modulating OP-1 expression. The  
 CC vector may optionally comprise a second non-coding sequence and the non-  
 CC coding sequence(s) used define at least one, preferably 1-6, WT1/EGR  
 CC binding elements, at least one FTZ (Fushi-Tarazu) binding element or a  
 CC steroid binding element

XX Sequence 21 BP; 0 A; 14 C; 0 G; 7 T; 0 U; 0 Other;

Query Match 0.6%; Score 17.8; DB 1; Length 21;

Best Local Similarity 90.5%; Pred. No. 92;

Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 275 TCCTCTCTCTCCACACCTCC 295  
 Db 1 TCCTCTCTCTCTCTCTCTCC 21

RESULT 56  
 ABK99278  
 ID ABK99278 standard; RNA; 21 BP.  
 XX  
 AC ABK99278;  
 XX  
 DT 21-OCT-2002 (first entry)  
 XX  
 DE Hepatitis C virus (HCV) NS5B replicase RNA synthesis template #8.  
 XX  
 KW Hepatitis C virus; HCV; NS5B replicase; ss; RNA polymerase.  
 XX  
 OS Synthetic.  
 XX  
 PN US2002064771-A1.  
 XX  
 PD 30-MAY-2002.  
 XX  
 PF 06-APR-2001; 2001US-00828034.  
 XX  
 PR 07-APR-2000; 2000US-0195852P.  
 XX  
 PA (ZHON/) ZHONG W.  
 PA (HONG/) HONG Z.  
 PA (FERR/) FERRARI E.  
 XX  
 PI Zhong W, Hong Z, Ferrari E;  
 XX  
 DR WPI; 2002-582330/62.  
 XX

PT Novel replicase complex comprising hepatitis C virus NS5B replicase, a 3  
 nucleotide-long template to which a 2 nucleotide-long primer is annealed,  
 PT and template and primer which do not form a stable duplex in the absence  
 PT of HCV NS5B.  
 XX  
 PS Example; Page 6; 17pp; English.  
 XX  
 CC The invention relates to a replicase complex comprising a hepatitis C  
 CC virus (HCV) NS5B replicase protein, a linear nucleic acid template and a  
 CC complementary nucleic acid primer which is annealed to the 3' terminus of  
 CC the template, where the template is at least three nucleotides and the  
 CC primer is two or three nucleotides, and the template and primer do not  
 CC form a stable duplex in solution in the absence of the HCV NS5B protein.  
 CC The complex is useful for detecting HCV replicase activity and permits  
 CC establishment of sensitive RNA-dependent RNA polymerase assays to screen  
 CC and evaluate antiviral inhibitors and to improve the specificity and  
 CC efficacy of the inhibitors. The complex is also useful in the development  
 CC of a reliable system for determining kinetic and thermodynamic constants  
 CC of HCV NS5B-catalysed nucleotide incorporation and investigation of  
 CC mechanistic inhibitors for mis-incorporation or chain termination.  
 CC Specifically, the short RNA template and primer pairs are useful in  
 CC screening assays which are used for determining kinetic, thermodynamic  
 CC and mechanistic properties of NS5B replication and ultimately in the  
 CC development of inhibitors of NS5B. Newly identified inhibitors of  
 CC replicase activity may be used for developing anti-HCV pharmaceuticals.  
 CC Sequences ABK99271-ABK99296 represent HCV NS5B replicase RNA synthesis  
 CC templates  
 XX  
 SQ Sequence 21 BP; 0 A; 14 C; 0 G; 0 T; 7 U; 0 Other;

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
 Best Local Similarity 66.7%; Pred. No. 92;  
 Matches 14; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 275 TCCTCTCTCTCCACACCTCC 295  
 Db 1 UCCUCCUCCUCCUCCUCC 21

RESULT 57  
 ABV72222  
 ID ABV72222 standard; cDNA; 21 BP.  
 XX  
 AC ABV72222;  
 XX  
 DT 05-DEC-2002 (first entry)  
 XX  
 DE PCR primer used to amplify cDNA encoding murine PDE4D.  
 XX  
 KW Phosphodiesterase 1C; PDE1C; glucose dependent insulin secretion;  
 KW pancreatic islet beta-cell; insulin secretion; type II diabetes; PDE4D;  
 KW PCR; primer; ss.  
 XX  
 OS Mus musculus.  
 XX  
 PN US6417208-B1.  
 XX  
 PD 09-JUL-2002.  
 XX  
 PF 05-FEB-1999; 99US-00245169.  
 XX  
 PR 05-FEB-1999; 99US-00245169.  
 XX  
 PA (YESH ) UNIV YESHIVA EINSTEIN COLLEGE.  
 XX  
 PI Michaeli TH;  
 XX  
 DR WPI; 2002-634740/68.  
 XX

PT Identifying agent that increases glucose dependent insulin secretion in  
 PT pancreatic islet cells to treat diabetes, by contacting cells with agent,  
 PT detecting inhibitory effect of agent on phosphodiesterase 1C activity.  
 XX  
 PS Disclosure; Col 12; 17pp; English.  
 XX  
 CC PCR primers ABV72221-22 were used to amplify cDNA encoding murine  
 CC phosphodiesterase 4D (PDE4D). The primers were used to determine PDE4D  
 CC expression, in the course of the invention. The specification describes a  
 CC method for identifying an agent that increases glucose dependent insulin  
 CC secretion in pancreatic islet beta-cells. The method comprises obtaining  
 CC a pancreatic islet beta-cell culture, contacting the culture with a  
 CC desired agent, and detecting whether the agent has an inhibitory effect  
 CC on activity of PDE1C in the beta-cells. The presence of an inhibitory  
 CC effect indicates that agent increases glucose dependent insulin  
 CC secretion. The inhibitor identified by the method provides nutrient  
 CC dependent potentiation of insulin secretion that is not associated with  
 CC hypoglycemia. The method is useful for identifying an agent that  
 CC increases glucose dependent insulin secretion in pancreatic islet beta-  
 CC cells. The identified agent is useful for treating type II diabetes  
 XX  
 SQ Sequence 21 BP; 2 A; 0 C; 16 G; 3 T; 0 U; 0 Other;

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
 Best Local Similarity 90.5%; Pred. No. 92;  
 Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 208 GGGGGTGGGTGGGGGGGAGG 228  
 Db 1 GGGGGTGGGTGGGTGGAGG 21

RESULT 58  
 ABX94188  
 ID ABX94188 standard; DNA; 21 BP.  
 XX  
 AC ABX94188;  
 XX  
 DT 10-JUN-2003 (first entry)  
 XX  
 DE PCR primer JWPDE4D-3 for mouse phosphodiesterase 4D (PDE4D) DNA.

XX Mouse; glucose dependent insulin secretion; pancreatic islet beta-cell;  
KW Phosphodiesterase 4D; PDE4D; diabetes; antidiabetic; PCR; primer; ss.  
XX  
OS Mus musculus.  
XX  
PN US2002160939-A1.  
XX  
XX 31-OCT-2002.  
XX  
XX 27-FEB-2002; 2002US-00085849.  
XX  
XX 05-FEB-1999; 99US-00245169.  
XX  
XX (MICH/) MICHAELI T H.  
XX  
XX Michaeli TH;  
XX  
XX WPI; 2003-361741/34.  
XX  
XX Identifying agents that increase glucose dependent insulin secretion in  
PT pancreatic islet cells, comprises contacting a pancreatic islet cell  
PT culture with an agent and detecting an inhibitory effect on  
PT phosphodiesterase 1C activity.  
XX  
XX Disclosure; Page 7; 18pp; English.  
XX  
XX The present invention relates to a method for identifying an agent that  
CC increases glucose dependent insulin secretion in pancreatic islet beta-  
CC cells. The method comprises contacting the pancreatic islet beta-cell  
CC culture with an agent, and detecting whether the agent has an inhibitory  
CC effect on the activity of phosphodiesterase (PDE) enzyme 1C (PDE1C) in  
CC the pancreatic islet beta-cells. The method is useful for identifying  
CC agents that increase glucose dependent insulin secretion in pancreatic  
CC islet cells. Agents identified using the method are useful for treating  
CC diabetes. The present sequence represents a PCR primer used to determine  
CC the expression of mouse phosphodiesterase 4D (PDE4D)  
XX  
XX Sequence 21 BP; 2 A; 0 C; 16 G; 3 T; 0 U; 0 Other;  
SQ  
Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 92;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 208 GGGGTGGGGTGGGGGGAGG 228  
DB 1 GGGGTGGGGTGGGTGAGAGG 21  
RESULT 59  
ACC80601/c  
ID ACC80601 standard; DNA; 21 BP.  
XX  
XX ACC80601;  
AC  
DT 15-OCT-2003 (first entry)  
XX  
XX Reverse primer to detect expression of mouse KCNC1 gene.  
DE  
XX plasmid; mouse; potassium voltage-gated ion channel; Kv3.1; modulator;  
KW ion channel; membrane receptor; ss; primer; PCR; amplification.  
XX  
XX Mus musculus.  
OS  
XX WO2003027634-A2.  
PN  
XX  
XX 03-APR-2003.  
PD  
XX 23-SEP-2002; 2002WO-US030249.  
PF  
XX 25-SEP-2001; 2001US-00965201.  
PR  
XX (AXIO-) AXION BIOTECHNOLOGIES INC.  
PA

XX Brown SJ, Dunnington DJ, Clark I;  
PI  
XX WPI; 2003-371935/35.  
DR  
XX  
XX Identifying compounds that modulate a target protein comprises providing  
PT cells transfected to provide a polynucleotide sequence encoding the  
PT target under control of a heterologous inducible promoter.  
XX  
XX Example 3; Page 108; 137pp; English.  
PS  
XX The invention relates to a method of identifying compounds that modulate  
XX a target protein, especially an ion channel protein or membrane receptor,  
CC comprising providing cells transfected to provide a polynucleotide  
CC sequence encoding the target under control of a heterologous inducible  
CC promoter. In an example of the invention the target gene is the mouse  
CC KCNC1 (potassium voltage-gated ion channel or Kv3.1) gene. The gene is  
CC cloned into a pcDNA4/TO expression vector and transfected into Chinese  
CC Hamster Ovary (CHO) cells. Primers ACC80600-ACC80601 were used to detect  
CC expression of the mouse KCNC1 gene in the the successfully transfected  
CC cell. The methods are useful identifying compounds that modulate a target  
CC protein for controlling expression of a target sequence, identifying  
CC target-expressing cells, expressing the target in its native form, and  
CC distinguishing between agonists, antagonists and non-functional  
CC interactions within the cellular environment  
XX  
XX Sequence 21 BP; 3 A; 5 C; 8 G; 5 T; 0 U; 0 Other;  
SQ  
Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 92;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 837 GATGACCTACCGGACGACCG 857  
DB 21 GATGACCTATCGGACGACCG 1  
RESULT 60  
ADK61698/c  
ID ADK61698 standard; DNA; 21 BP.  
XX  
XX ADK61698;  
AC  
XX 06-MAY-2004 (first entry)  
DT  
XX Base containing SSR sequence #2.  
DE  
XX rice variety; amplification genetic marker; ds.  
KW  
XX Oryza sp.  
OS  
XX JP2003319782-A.  
PN  
XX 11-NOV-2003.  
PD  
XX 02-MAY-2002; 2002JP-00130645.  
PF  
XX 02-MAY-2002; 2002JP-00130645.  
PR  
XX (HOKU-) HOKUREN NOGOYO KYODO KUMIAI.  
XX (HOKK-) HOKKAIDO GREEN BIO KENKYUSHO KK.  
PA  
XX WPI; 2004-003560/01.  
DR  
XX Identifying rice variety using base sequence containing SSR sequence and  
PT amplifying genetic marker.  
PT  
XX Claim 6; SEQ ID NO 2; 30pp; Japanese.  
PS  
XX The present invention relates to identifying a rice variety as  
CC amplification genetic marker and identifying whether test rice variety is  
CC any one of the 32 rice varieties e.g., Kasalath, breadth which came or  
CC Hayamasari, Italica Livorno, Dughan Shali, Arroz Da Terra, Fany, USSR22,  
CC

```

CC Nihonbare. The method is useful for identifying rice variety and
CC identifies excellent rice variety. The present sequence represents a base
CC - containing SSR sequence of the invention.
XX
SQ Sequence 21 BP; 7 A; 0 C; 14 G; 0 T; 0 U; 0 Other;

Query Match          0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 92;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 275 TCCTCTCTCTCCACCACTCC 295
Db 21 TCCTCTCTCTCTCTCTCTCC 1

RESULT 61
ADQ30708/c
ID ADQ30708 standard; DNA; 21 BP.
XX
AC ADQ30708;
XX
DT 23-SEP-2004 (first entry)
XX
DE Device with substance to aid adhesion of biological material aptamer #2.
XX
KW aptamer; ss; implant; biological material adhesion; bioreactor.
XX
OS Synthetic.
XX
PN WO2004055153-A2.
XX
PD 01-JUL-2004.
XX
PF 10-DEC-2003; 2003WO-EP013989.
XX
PR 17-DEC-2002; 2002DE-01058924.
XX
PA (UYTU-) UNIV TUEBINGEN EBERHARD-KARLS.
XX
PI Schluesener H, Wendel H;
XX
DR WPI; 2004-517421/49.
XX
PT Device coated with aptamers for binding specific biological materials,
PT useful e.g. as stent or component of extracorporeal circulation system,
PT also new aptamers specific for endothelial precursor cells.
XX
PS Claim 15; SEQ ID NO 2; 31pp; German.
XX
CC The present invention relates to a device that has at least one surface
CC that contacts tissue and/or liquids of the human or animal body and is at
CC least partly coated with a substance that mediates binding of biological
CC materials. The new feature is that this substance is an aptamer. The
CC device is particularly an implant, e.g. a stent, vascular prosthesis,
CC heart valve, joint etc., but may also be a component of an extracorporeal
CC circulation system, a nanomaterial for tissue engineering and vascular
CC surgery, a catheter, contact lens, storage device for blood etc., also a
CC bioreactor for isolation and culture of selected cell types, for
CC production of substances or for growing organ replacements. The present
CC sequence is an aptamer suitable for use in the device of the invention.
XX
SQ Sequence 21 BP; 0 A; 14 C; 7 G; 0 T; 0 U; 0 Other;

Query Match          0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 92;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGCGG 671
Db 21 CGGCAGCAGCGCGCGCGCGG 1

RESULT 62
ADQ30709
ID ADQ30709 standard; DNA; 21 BP.
XX
AC ADQ30709;
XX
DT 23-SEP-2004 (first entry)
XX
DE Device with substance to aid adhesion of biological material aptamer #3.
XX
KW aptamer; ss; implant; biological material adhesion; bioreactor.
XX
OS Synthetic.
XX
PN WO2004055153-A2.
XX
PD 01-JUL-2004.
XX
PF 10-DEC-2003; 2003WO-EP013989.
XX
PR 17-DEC-2002; 2002DE-01058924.
XX
PA (UYTU-) UNIV TUEBINGEN EBERHARD-KARLS.
XX
PI Schluesener H, Wendel H;
XX
DR WPI; 2004-517421/49.
XX
PT Device coated with aptamers for binding specific biological materials,
PT useful e.g. as stent or component of extracorporeal circulation system,
PT also new aptamers specific for endothelial precursor cells.
XX
PS Claim 15; SEQ ID NO 3; 31pp; German.
XX
CC The present invention relates to a device that has at least one surface
CC that contacts tissue and/or liquids of the human or animal body and is at
CC least partly coated with a substance that mediates binding of biological
CC materials. The new feature is that this substance is an aptamer. The
CC device is particularly an implant, e.g. a stent, vascular prosthesis,
CC heart valve, joint etc., but may also be a component of an extracorporeal
CC circulation system, a nanomaterial for tissue engineering and vascular
CC surgery, a catheter, contact lens, storage device for blood etc., also a
CC bioreactor for isolation and culture of selected cell types, for
CC production of substances or for growing organ replacements. The present
CC sequence is an aptamer suitable for use in the device of the invention.
XX
SQ Sequence 21 BP; 0 A; 7 C; 14 G; 0 T; 0 U; 0 Other;

Query Match          0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 92;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 670
Db 1 GCGGCAGCAGCGCGCGCGCGG 21

RESULT 63
ADQ30710
ID ADQ30710 standard; DNA; 21 BP.
XX
AC ADQ30710;
XX
DT 23-SEP-2004 (first entry)
XX
DE Device with substance to aid adhesion of biological material aptamer #4.
XX
KW aptamer; ss; implant; biological material adhesion; bioreactor.
XX
OS Synthetic.
XX
PN WO2004055153-A2.
XX
PD 01-JUL-2004.

```

XX 10-DEC-2003; 2003WO-BP013989.  
XX 17-DEC-2002; 2002DE-01058924.  
XX (UYTU-) UNIV TUEBINGEN EBERHARD-KARLS.  
XX Schluesener H, Wendel H;  
XX WPI; 2004-517421/49.  
XX Device coated with aptamers for binding specific biological materials,  
XX useful e.g. as stent or component of extracorporeal circulation system,  
XX also new aptamers specific for endothelial precursor cells.  
XX Claim 15; SEQ ID NO 4; 31pp; German.  
XX The present invention relates to a device that has at least one surface  
XX that contacts tissue and/or liquids of the human or animal body and is at  
XX least partly coated with a substance that mediates binding of biological  
XX materials. The new feature is that this substance is an aptamer. The  
XX device is particularly an implant, e.g. a stent, vascular prosthesis,  
XX heart valve, joint etc., but may also be a component of an extracorporeal  
XX circulation system, a nanomaterial for tissue engineering and vascular  
XX surgery, a catheter, contact lens, storage device for blood etc., also a  
XX bioreactor for isolation and culture of selected cell types, for  
XX production of substances or for growing organ replacements. The present  
XX sequence is an aptamer suitable for use in the device of the invention.  
XX Sequence 21 BP; 0 A; 7 C; 14 G; 0 T; 0 U; 0 Other;  
XX  
XX Query Match 0.6%; Score 17.8; DB 1; Length 21;  
XX Best Local Similarity 90.5%; Pred. No. 92;  
XX Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
XX  
QY 651 CGGCAGCAGCGGCGGCGGCGG 671  
Db 1 CGGCGGCGGCGGCGGCGGCGG 21  
XX  
RESULT 64  
ADRI8470  
ID ADRI8470 standard; DNA; 21 BP.  
XX  
XX ADRI8470;  
XX  
XX 18-NOV-2004 (first entry)  
XX  
XX Human GOBLIN siRNA antisense strand oligonucleotide SEQ ID NO:251.  
XX  
XX cancer; GOBLIN; micrometastasis; metastasis; cytostatic; gene therapy;  
XX squamous cell carcinoma; hepatocellular carcinoma; melanoma;  
XX head and neck cancer; adenocarcinoma; gastrointestinal cancer;  
XX renal cell cancer; bladder cancer; prostate cancer;  
XX non-squamous carcinoma; glioblastoma; medullablastoma; ovarian cancer;  
XX basal cell carcinoma; clear cell cancer; medullablastoma; ovarian cancer;  
XX mucinous ovarian cancer; breast cancer; lobular lesion; stromal lesion;  
XX ductal carcinoma; ductal adenocarcinoma;  
XX proliferative fibrocytic change; epitheliosis; intraductal papilloma;  
XX atypical ductal hyperplasia; hyperproliferative disease; human;  
XX small interfering RNA; siRNA; ss.  
XX  
XX Homo sapiens.  
XX Synthetic.  
XX  
XX Key Location/Qualifiers  
XX misc\_feature 1..19  
XX /\*tag= a  
XX /\*note= "human GOBLIN mRNA target sequence"  
XX 20..21  
XX /\*tag= b  
XX /\*note= "3'-extension dinucleotide TT overhang"

PN WO2004072285-A1.  
XX 26-AUG-2004.  
XX 12-FEB-2004; 2004WO-AU000169.  
XX PF  
XX 14-FEB-2003; 2003US-0447697P.  
XX PR  
XX (GARV-) GARVAN INST MEDICAL RES.  
XX PA  
XX Stanford P, Harris J, Ormandy C;  
XX WPI; 2004-625877/60.  
XX  
XX Detecting a cancer, e.g. breast or ovarian cancer, in a subject comprises  
XX determining the level of expression of a GOBLIN gene in a sample.  
XX  
XX Claim 93; SEQ ID NO 251; 217pp; English.  
XX  
XX The present invention describes a method for detecting a cancer cell in a  
XX subject. The method comprises determining the level of expression of a  
XX GOBLIN gene in a sample of the subject where elevated expression of the  
XX gene is indicative of a primary cancer or its micrometastasis or  
XX metastasis. Also described: (1) an isolated GOBLIN nucleic acid molecule;  
XX (2) a vector comprising the isolated nucleic acid of (1); (3) a  
XX monoclonal or polyclonal antibody that binds specifically to a GOBLIN  
XX polypeptide; (4) an isolated GOBLIN polypeptide, or its immunogenic  
XX epitope; (5) a fusion protein comprising the isolated polypeptide of (4);  
XX (6) a method of identifying a compound that reduces or antagonises  
XX expression of a GOBLIN gene; (7) a process for identifying or determining  
XX and producing a compound; (8) an isolated nucleic acid that antagonises  
XX expression of a GOBLIN gene, where the nucleic acid comprises a  
XX nucleotide sequence comprising any of the 21 bp sequences of SEQ ID  
XX NOS:46-353; (9) an isolated antisense nucleic acid that antagonises  
XX expression of a GOBLIN gene, where the nucleic acid comprises a  
XX nucleotide sequence capable of selectively hybridising to mRNA encoded by  
XX the isolated nucleic acid of (1); and (10) a process for monitoring the  
XX efficacy of treatment of a cancer in a subject. GOBLIN sequences have  
XX cytostatic activity, and can be used in gene therapy. An isolated GOBLIN  
XX nucleic acid molecule can be used for detecting a cancer cell. An  
XX isolated GOBLIN polypeptide can be used for producing an antibody. The  
XX method, nucleic acid molecules and the encoded polypeptides, and  
XX antibodies can be used for detecting a cancer, e.g. squamous cell  
XX carcinoma, hepatocellular carcinoma, melanoma, head and neck cancer,  
XX adenocarcinoma, gastrointestinal cancer (e.g. gastric, colon, or  
XX pancreatic cancer), renal cell cancer, bladder cancer, prostate cancer,  
XX non-squamous carcinoma, glioblastoma, medullablastoma, ovarian cancer  
XX (e.g. basal cell carcinoma, clear cell carcinoma, endometrioid ovarian  
XX cancer, or mucinous ovarian cancer), or breast cancer (e.g. lobular  
XX lesion, stromal lesion, ductal carcinoma, ductal adenocarcinoma,  
XX proliferative fibrocytic change, epitheliosis, intraductal papilloma, or  
XX atypical ductal hyperplasia) in a subject. The antagonist of GOBLIN  
XX function, method, and compound are useful for treating hyperproliferative  
XX disease, like cancer. The present sequence represents a small interfering  
XX RNA (siRNA) oligonucleotide targeted to human GOBLIN, which is used in  
XX the exemplification of the present invention.  
XX  
XX Sequence 21 BP; 1 A; 13 C; 0 G; 7 T; 0 U; 0 Other;  
XX  
XX Query Match 0.6%; Score 17.8; DB 1; Length 21;  
XX Best Local Similarity 90.5%; Pred. No. 92;  
XX Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
XX  
QY 282 CCTCCACACCTCCTCCTCCT 302  
Db 1 CCTCCACCTCCTCCTCCTT 21  
XX  
XX RESULT 65  
XX ADU44462  
XX ID ADU44462 standard; DNA; 21 BP.  
XX  
XX ADU44462;  
XX



XX DT 27-JAN-2005 (first entry)  
 XX DE Knock-down target sequence #9641.  
 XX KW ds; RNA production; protein production; drug development;  
 XX KW knock-down target.  
 XX OS Unidentified.  
 XX PN WO2004094636-A1.  
 XX PD 04-NOV-2004.  
 XX PF 24-APR-2003; 2003WO-EP004362.  
 XX PR 24-APR-2003; 2003WO-EP004362.  
 XX PA (GALA-) GALAPAGOS GENOMICS NV.  
 XX PA (VSC/ ) VAN DER SCHUREN J.  
 XX PI Arts GJF, Lambrecht MJY, Djokic K, Clasen RJ, Mesic E;  
 XX PI Griffioen S, Bergs CJL;  
 XX DR WPI; 2004-775940/76.  
 XX PT New knockdown sequences, useful in lowering the amount of RNA and/or  
 XX PT protein production in cells used in drug development process.  
 XX PS Claim 11; SEQ ID NO 9703; 402pp; English.  
 XX CC The invention relates to a polynucleotide comprising an RNA sequence. The  
 XX CC polynucleotides, vector, libraries, and method are useful in lowering the  
 XX CC amount of RNA and/or protein production in cells used in drug development  
 XX CC process. The present sequence represents a knock-down target sequence.  
 XX SQ Sequence 21 BP; 4 A; 6 C; 4 G; 7 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 17.8; DB 1; Length 21;  
 Best Local Similarity 90.5%; Pred. No. 92;  
 Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 1345 AACATCATCGACTTTGTGGCC 1365  
 Db | | | | | | | | | | | | | | | | | | | | | |  
 1 ACCATCATTTGACTTTGTGGCC 21  
 RESULT 66  
 AD274323  
 ID AD274323 standard; DNA; 21 BP.  
 XX AC AD274323;  
 XX DT 28-JUL-2005 (first entry)  
 DE (CGG)n nucleotide triplet oligonucleotide, SEQ ID 12.  
 XX KW Short stature; FRAXG; CpG island; chromosome X; ss.  
 XX OS Homo sapiens.  
 XX PN US2005112613-A1.  
 XX PD 26-MAY-2005.  
 XX PF 26-APR-2004; 2004US-00831819.  
 XX PR 25-APR-2003; 2003US-0320146P.  
 XX PA (OHIS ) UNIV OHIO STATE RES FOUND.  
 XX PI Krahe R, Zhang S, De La Chapelle A;  
 XX DR WPI; 1995-036508/05.

DR WPI; 2005-371658/38.  
 XX Identifying an individual predisposed to or capable of transmitting short  
 XX PT stature to its offspring, comprises assaying DNA sample for the number of  
 XX PT specified nucleotide triplets in the FRAXG CpG island.  
 XX PS Disclosure; SEQ ID NO 12; 40pp; English.  
 XX CC The present invention relates to a method for identifying an individual  
 XX CC who is predisposed to or is capable of transmitting to its offspring an  
 XX CC increased likelihood of developing short stature. The method comprises  
 XX CC assaying a sample of DNA from the individual for the number of (CGG)n/  
 XX CC (CCG)n nucleotide triplets in the FRAXG CpG island on chromosome Xp22.1.  
 XX CC FRAXG is a rare heritable, folate-sensitive fragile site (RHFFS). The  
 XX CC (CGG)n/ (CCG)n designation indicates that on one strand of genomic DNA,  
 XX CC the sequence is 5'-CGG-3' while on the complementary strand of DNA the  
 XX CC sequence is 5'-CGG-3'. An increased number of (CGG)n/ (CCG)n nucleotide  
 XX CC triplets in at least one FRAXG allele in the individual compared to the  
 XX CC average number of (CGG)n/ (CCG)n nucleotide triplets in FRAXG alleles  
 XX CC from a normal population of individuals indicates the individual has an  
 XX CC increased likelihood of developing short stature or offspring receiving  
 XX CC from the individual a FRAXG allele having an increased number of (CGG)n/  
 XX CC (CCG)n nucleotide triplets will have an increased likelihood of  
 XX CC developing short stature. The method also comprises assaying the DNA from  
 XX CC the individual for methylation of cytosine nucleotides within the FRAXG  
 XX CC CpG island, where hypermethylation of one or more of the cytosine  
 XX CC nucleotides indicates the individual has an increased likelihood of  
 XX CC developing short stature or that offspring receiving from the individual  
 XX CC a FRAXG allele having hypermethylated cytosine nucleotides in the FRAXG  
 XX CC CpG island will have an increased likelihood of developing short stature.  
 XX CC The present sequence was used to illustrate the invention.  
 XX SQ Sequence 21 BP; 0 A; 7 C; 14 G; 0 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 17.8; DB 1; Length 21;  
 Best Local Similarity 90.5%; Pred. No. 92;  
 Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 651 CGGCAGCAGCGCGCGCGCGG 671  
 Db | | | | | | | | | | | | | | | | | | | | | |  
 1 CGGCAGCAGCGCGCGCGCGG 21  
 RESULT 67  
 AAQ82681  
 ID AAQ82681 standard; DNA; 19 BP.  
 XX AC AAQ82681;  
 XX DT 25-MAR-2003 (revised)  
 DT 14-SEP-1995 (first entry)  
 XX DE Chromosome 11 (locus NGK2) STS primer NGK2-A.  
 XX KW sequence sampled mapping; genomic analysis; complex genome mapping;  
 XX KW cosmid library; chromosome 11; sequence tagged site; STS analysis; ss.  
 XX OS Synthetic.  
 XX PN WO9429486-A1.  
 XX PD 22-DEC-1994.  
 XX PF 15-JUN-1994; 94WO-US006810.  
 XX PR 15-JUN-1993; 93US-00078471.  
 XX PR 07-SEP-1993; 93US-00117952.  
 XX PA (SALK ) SALK INST BIOLOGICAL STUDIES.  
 XX PI Evans GA, Smith MW;  
 XX DR WPI; 1995-036508/05.

XX Sequencing complex genomes, present as fragments in a cosmid library - by  
PT sequencing end-specific nucleotides of each clone then correlating with  
PT spatial relationship of cosmid, esp. for mammalian chromosomes.  
XX Example 4; Page 93; 128pp; English.  
XX Sequences were determined from the ends of chromosome 11-specific cosmids  
CC by automated sequencing without intermediate subcloning. A sample of 371  
CC DNA sequence fragments were determined and of these, 277 were suitable  
CC for STS primer prediction by computer analysis (using the "Primer"  
CC program available from E.Lander, MIT). The STSs and cosmids were mapped  
CC by in situ hybridisation, somatic cell hybrid analysis or both. Using  
CC this method, 370 STSs specific for human chromosome 11 were generated and  
CC most of them were regionally mapped. This procedure illustrates a novel  
CC method for sequencing complex genomes, designated "sequence sampled  
CC mapping". The sequence sampled mapping method is useful for the  
CC completion of high density sequence-based maps, and ultimately, for the  
CC complete sequencing of genomic DNA directly from cosmid clones. See  
CC AAQ82001-Q82706 and AAQ91325-Q91358 for STS primers. (Updated on 25-MAR-  
CC 2003 to correct PN field.)  
XX  
SQ Sequence 19 BP; 2 A; 6 C; 4 G; 7 T; 0 U; 0 Other;  
Query Match 0.6%; Score 17.4; DB 1; Length 19;  
Best Local Similarity 94.7%; Pred. No. 91;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1555 ATCATCTTCTGCGCCCTGG 1573  
DB 1 ATCATCTTCTGCGCCCTGG 19  
RESULT 68  
ABN80409/c  
ID ABN80409 standard; DNA; 19 BP.  
XX  
AC ABN80409;  
XX  
XX 16-JUL-2002 (first entry)  
DE DNA-RNA hybrid primer #28.  
XX  
KW Amplification; chimeric oligonucleotide primer; disease diagnosis;  
KW polymerase chain reaction; PCR; genetic engineering; blood; urine;  
KW plant tissue; animal tissue; assay; soil; food; microorganism;  
KW DNA/RNA hybrid; ss.  
XX  
XX Mus sp.  
XX WO200216639-A1.  
XX  
XX 28-FEB-2002.  
XX  
XX 21-AUG-2001; 2001WO-JP007139.  
XX  
XX 23-AUG-2000; 2000JP-00251981.  
XX 19-SEP-2000; 2000JP-00284419.  
XX 22-SEP-2000; 2000JP-00288750.  
XX 03-APR-2001; 2001JP-00104191.  
XX  
XX (TAKI ) TAKARA SHUZO CO LTD.  
XX  
XX Sagawa H, Uemori T, Mukai H, Yamamoto J, Tomono J, Kobayashi E;  
XX Enoki T, Asada K, Kato I;  
XX WPI; 2002-351653/38.  
XX  
XX Amplifying a target nucleic acid in sample, useful in e.g. clinical  
PT applications, genetic engineering and for assaying blood, urine, plant  
PT and animal tissues and environmental materials like soil and food.  
XX Example; Page 271; 332pp; Japanese.

XX The invention relates to the amplification of a nucleic acid. This  
CC comprises using a nucleic acid as template, deoxypolynucleotide 3-  
CC phosphate, a chimeric oligonucleotide primer with a ribonucleotide  
CC provided at the 3'-terminus or in the 3'-terminal side, DNA polymerase  
CC with a chain-transfer activity, an RNaseH or endonuclease, and incubating  
CC the mixture to give a reaction product. The method is useful for  
CC amplifying a target nucleic acid in a sample, which is useful in e.g.  
CC clinical applications including disease diagnosis, genetic engineering,  
CC in assaying blood, urine, plant and animal tissues, environmental  
CC materials like soil and food and identification of microorganisms. The  
CC method of the invention, known as an isothermal and chimeric primer-  
CC initiated amplification of nucleic acids (ICAN) method, is highly  
CC sensitive and specific. Sequences given in records ABN80338-ABN80532  
CC represent target nucleic acids, chimeric oligonucleotides and  
CC oligonucleotide primers and probes of the invention. Chimeric  
CC oligonucleotides are DNA/RNA hybrids  
XX  
SQ Sequence 19 BP; 5 A; 2 C; 7 G; 5 T; 0 U; 0 Other;  
Query Match 0.6%; Score 17.4; DB 1; Length 19;  
Best Local Similarity 94.7%; Pred. No. 91;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1579 CTCATCTTTGCCACCATGA 1597  
DB 19 CTCATCTTTGCCACCAAGA 1  
RESULT 69  
ABN80411/c  
ID ABN80411 standard; DNA; 19 BP.  
XX  
AC ABN80411;  
XX  
XX 16-JUL-2002 (first entry)  
DE Oligonucleotide primer #14.  
XX  
KW Amplification; chimeric oligonucleotide primer; disease diagnosis;  
KW polymerase chain reaction; PCR; genetic engineering; blood; urine;  
KW plant tissue; animal tissue; assay; soil; food; microorganism; ss.  
XX  
XX Mus sp.  
XX WO200216639-A1.  
XX  
XX 28-FEB-2002.  
XX  
XX 21-AUG-2001; 2001WO-JP007139.  
XX  
XX 23-AUG-2000; 2000JP-00251981.  
XX 19-SEP-2000; 2000JP-00284419.  
XX 22-SEP-2000; 2000JP-00288750.  
XX 03-APR-2001; 2001JP-00104191.  
XX  
XX (TAKI ) TAKARA SHUZO CO LTD.  
XX  
XX Sagawa H, Uemori T, Mukai H, Yamamoto J, Tomono J, Kobayashi E;  
XX Enoki T, Asada K, Kato I;  
XX WPI; 2002-351653/38.  
XX  
XX Amplifying a target nucleic acid in sample, useful in e.g. clinical  
PT applications, genetic engineering and for assaying blood, urine, plant  
PT and animal tissues and environmental materials like soil and food.  
XX Example; Page 272; 332pp; Japanese.  
XX  
XX The invention relates to the amplification of a nucleic acid. This  
CC comprises using a nucleic acid as template, deoxypolynucleotide 3-  
CC phosphate, a chimeric oligonucleotide primer with a ribonucleotide  
CC provided at the 3'-terminus or in the 3'-terminal side, DNA polymerase

CC with a chain-transfer activity, an RNaseH or endonuclease, and incubating  
 CC the mixture to give a reaction product. The method is useful for  
 CC amplifying a target nucleic acid in a sample, which is useful in e.g.  
 CC clinical applications including disease diagnosis, genetic engineering,  
 CC in assaying blood, urine, plant and animal tissues, environmental  
 CC materials like soil and food and identification of microorganisms. The  
 CC method of the invention, known as an isothermal and chimeric primer-  
 CC initiated amplification of nucleic acids (ICAN) method, is highly  
 CC sensitive and specific. Sequences given in records ABN80338-ABN80532  
 CC represent target nucleic acids, chimeric oligonucleotides and  
 CC oligonucleotide primers and probes of the invention. Chimeric  
 CC oligonucleotides are DNA/RNA hybrids

XX  
 SQ Sequence 19 BP; 5 A; 2 C; 7 G; 5 T; 0 U; 0 Other;

Query Match 0.6%; Score 17.4; DB 1; Length 19;  
 Best Local Similarity 94.7%; Pred. No. 91;  
 Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1579 CTCATCTTTGCCACCATGA 1597  
 |||||  
 DB 19 CTCATCTTTGCCACCAAGA 1

## RESULT 70

ABT23709/c  
 ID ABT23709 standard; DNA; 19 BP.

AC ABT23709;

DT 22-MAY-2003 (first entry)

DE Stabilising reagent method related oligo SEQ ID No 161.

XX Stabilising reaction reagent; PCR; primer; RNaseH; long-term storage;  
 KW specific amplification; pathogenic microorganism; chimeric;  
 KW genetic engineering; clinical medicine; ss.

XX Unidentified.

PN WO2002101042-A1.

XX 19-DEC-2002.

PF 12-JUN-2002; 2002WO-JP005832.

XX 12-JUN-2001; 2001JP-00177737.

PR 20-AUG-2001; 2001JP-00249689.

XX (TAKI ) TAKARA BIO INC.

PA Sagawa H, Uemori T, Mukai H, Yamamoto J, Tomono J, Kobayashi B;

PI Enoki T, Asada K, Kato I;

XX WPI; 2003-148805/14.

DR Method for stabilizing and storing reaction reagents for specific  
 PT amplification and detection of nucleic acids particularly in e.g.  
 PT identifying pathogenic microorganisms or viruses in sample.

PS Example 15; Page 175; 177pp; Japanese.

XX The invention relates to a novel stabilising reaction reagent for use in  
 CC the amplification and/or detection of a target nucleic acid comprising:  
 CC preparing a reaction mixture with e.g. a nucleic acid as template, at  
 CC least 1 primer and RNaseH; and incubation of the reaction mixture for a  
 CC defined period of time to form a reaction product during the  
 CC amplification of such target nucleic acid. The method is useful for  
 CC stabilising and long-term storage of reaction reagents for highly  
 CC sensitive and specific amplification and detection of nucleic acids  
 CC particularly in identifying pathogenic microorganisms or viruses in a  
 CC sample using chimeric oligonucleotide primers, which is useful in genetic  
 CC engineering and clinical medicine. This polynucleotide sequence

CC represents an oligo relating to the novel stabilising reaction reagent  
 CC method of the invention

XX Sequence 19 BP; 5 A; 2 C; 7 G; 5 T; 0 U; 0 Other;

Query Match 0.6%; Score 17.4; DB 1; Length 19;  
 Best Local Similarity 94.7%; Pred. No. 91;  
 Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1579 CTCATCTTTGCCACCATGA 1597  
 |||||  
 DB 19 CTCATCTTTGCCACCAAGA 1

## RESULT 71

ADF83713  
 ID ADF83713 standard; RNA; 19 BP.

XX ADF83713;

DT 26-FEB-2004 (first entry)

DE Human breakpoint cluster region-targeted siRNA - SEQ ID 7.

XX short interfering nucleic acid; siRNA; breakpoint cluster region;  
 KW v-abl Abelson murine leukaemia viral oncogene homologue 1; BCR-ABL;  
 KW cytotostatic; leukaemia; lymphoma; human; BCR; ss; siRNA.

OS Homo sapiens.

XX WO2003070972-A2.

PN 28-AUG-2003.

PD 20-FEB-2003; 2003WO-US005234.

XX 20-FEB-2002; 2002US-0358580P.

PR 11-MAR-2002; 2002US-0363124P.

PR 06-JUN-2002; 2002US-0386782P.

PR 15-AUG-2002; 2002US-0404039P.

PR 29-AUG-2002; 2002US-0406784P.

PR 05-SEP-2002; 2002US-0408378P.

PR 09-SEP-2002; 2002US-0409293P.

PR 14-JAN-2003; 2003US-0439922P.

PR 15-JAN-2003; 2003US-0440129P.

XX (RIBO-) RIBOZYME PHARM INC.

PA Mcswiggen J, Beigelman L, Chowrira B;

PI WPI; 2003-679889/64.

DR New double-stranded interfering nucleic acid, useful e.g. for treatment  
 PT and diagnosis of leukemia and lymphoma, downregulates the breakpoint  
 PT cluster region-Abelson (BCR-ABL) gene.

PS Example 7; SEQ ID NO 7; 197pp; English.

XX The invention relates to a novel double-stranded short interfering  
 CC nucleic acid (siRNA) that downregulates expression of the breakpoint  
 CC cluster region-v-abl Abelson murine leukaemia viral oncogene homologue 1  
 CC (BCR-ABL) gene. The siRNA of the invention demonstrates cytostatic  
 CC activity and may be useful for modulating expression of the BCR-ABL gene,  
 CC as well as for treating leukaemia or lymphoma and in diagnosis, drug  
 CC screening, target identification and validation, genetic engineering, of  
 CC gene function studies and gene mapping. The current sequence is that of  
 CC the human BCR-targeted siRNA of the invention.

XX Sequence 19 BP; 1 A; 6 C; 12 G; 0 T; 0 U; 0 Other;

Query Match 0.6%; Score 17.4; DB 1; Length 19;  
 Best Local Similarity 94.7%; Pred. No. 91;  
 Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 650 GCGGCAGCGCGCGGG 668  
Db 1 GCGGCAGCGCGCGCGGG 19

RESULT 72  
ADP83976/c  
ID ADF83976 standard; RNA; 19 BP.  
XX  
AC ADF83976;  
XX  
DT 26-FEB-2004 (first entry)  
XX  
DE Human breakpoint cluster region-targeted siRNA - SEQ ID 270.  
XX  
KW short interfering nucleic acid; siRNA; breakpoint cluster region;  
KW v-abl Abelson murine leukaemia viral oncogene homologue 1; BCR-ABL;  
KW cytostatic; leukaemia; lymphoma; human; BCR; ss; siRNA.  
XX  
OS Homo sapiens.  
XX  
PN WO2003070972-A2.  
XX  
PD 28-AUG-2003.  
XX  
PF 20-FEB-2003; 2003WO-US005234.  
XX  
PR 20-FEB-2002; 2002US-0358580P.  
PR 11-MAR-2002; 2002US-0363124P.  
PR 06-JUN-2002; 2002US-0386782P.  
PR 15-AUG-2002; 2002US-0404039P.  
PR 29-AUG-2002; 2002US-0406784P.  
PR 05-SEP-2002; 2002US-0408378P.  
PR 09-SEP-2002; 2002US-0409293P.  
PR 14-JAN-2003; 2003US-0439922P.  
PR 15-JAN-2003; 2003US-0440129P.  
XX  
PA (RIBO-) RIBOZYME PHARM INC.  
XX  
PI Mcswiggen J, Beigelman L, Chowrira B;  
XX  
DR WPI; 2003-679889/64.  
XX  
PT New double-stranded interfering nucleic acid, useful e.g. for treatment  
PT and diagnosis of leukemia and lymphoma, downregulates the breakpoint  
PT cluster region-Abelson (BCR-ABL) gene.  
XX  
PS Example 7; SEQ ID NO 270; 197pp; English.  
XX  
CC The invention relates to a novel double-stranded short interfering  
CC nucleic acid (siNA) that downregulates expression of the breakpoint  
CC cluster region-v-abl Abelson murine leukaemia viral oncogene homologue 1  
CC (BCR-ABL) gene. The siRNA of the invention demonstrates cytostatic  
CC activity and may be useful for modulating expression of the BCR-ABL gene,  
CC as well as for treating leukaemia or lymphoma and in diagnosis, drug  
CC screening, target identification and validation, genetic engineering,  
CC gene function studies and gene mapping. The current sequence is that of  
CC the human BCR-targeted siRNA of the invention.  
XX  
SQ Sequence 19 BP; 0 A; 12 C; 6 G; 0 T; 1 U; 0 Other;  
Query Match 0.6%; Score 17.4; DB 1; Length 19;  
Best Local Similarity 94.7%; Pred. No. 91;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 650 GCGGCAGCGCGCGGG 668  
Db 19 GCGGCAGCGCGCGCGGG 1

RESULT 73  
ABD22298/c

ID ABD22298 standard; DNA; 20 BP.  
XX  
AC ABD22298;  
XX  
DT 29-JUL-2004 (first entry)  
XX  
DE Human stanniocalcin-derived oligo SEQ ID 1310.  
XX  
KW Human; antisenase; bronchoconstriction; allergy; hyposecretion; pain;  
KW respiratory tract inflammation; adenosine sensitivity; lung; cancer;  
KW surfactant depletion; antiallergic; antiinflammatory; antiasthmatic;  
KW analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis;  
KW beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;  
KW respiratory distress syndrome; allergic rhinitis; pulmonary hypertension;  
KW emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;  
KW pulmonary transplantation rejection; ss; primer.  
XX  
OS Homo sapiens.  
XX  
PN WO200285309-A2.  
XX  
PD 31-OCT-2002.  
XX  
PF 23-APR-2002; 2002WO-US013143.  
XX  
PR 24-APR-2001; 2001US-0286036P.  
XX  
PA (EPIG-) EPIGENESIS PHARM INC.  
XX  
PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;  
PI Miller S, Tang L, Shahabuddin S;  
XX  
DR WPI; 2003-093058/08.  
XX  
PT Pharmaceutical composition for treating asthma, has antisenase  
PT oligonucleotide containing less percentage of adenosine, targeted to  
PT nucleic acids associated with lung airway or lung dysfunction, and  
PT bronchodilating agent.  
XX  
PS Claim 15; SEQ ID NO 1310; 763pp; English.  
XX  
CC This invention describes a novel composition (a) a first active agent,  
CC comprising oligonucleotides, effective for alleviating  
CC bronchoconstriction, respiratory tract inflammation, allergies and  
CC reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,  
CC surfactant depletion or hyposecretion, when administered to a mammal. The  
CC oligonucleotides are derived from a gene encoding or regulating  
CC expression of a target polypeptide associated with lung airway or lung  
CC dysfunction or cancer and can be anti-sense to the corresponding mRNA.  
CC The invention also describes a kit, that comprises: (a) a delivery  
CC device, in separate containers, (b) the oligonucleotides, (c)  
CC instructions for adding a carrier and for use of the kit. The composition  
CC of the invention has antiallergic, antiinflammatory, antiasthmatic,  
CC analgesic, hypotensive, immunosuppressive and cytostatic activity, is a  
CC beta-adrenergic agonist. The composition is useful for preventing or  
CC treating a respiratory, lung or malignant disease. The administered  
CC composition comprises oligo and is administered to reduce the production  
CC or availability, or to increase the degradation of the target mRNA or to  
CC reduce the amount of target polypeptide present in the lungs. The  
CC pulmonary obstruction, and/or bronchoconstriction and/or lung  
CC inflammation, allergies and/or surfactant hypoproduction are associated  
CC with a disease or condition such as pulmonary vasoconstriction,  
CC inflammation, allergies, asthma, impeded respiration, respiratory  
CC distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary  
CC hypertension, emphysema, chronic obstructive pulmonary disease, cancer,  
CC transplantation rejection, pulmonary infections, bronchitis or cancer.  
CC The reduced adenosine content of the anti-sense oligos corresponding to  
CC thymidines present in the target RNA serves to prevent the breakdown of  
CC the oligonucleotides into products that free adenosine into the system  
CC e.g., lung, brain, heart, kidney, etc., tissue environment and thereby, to  
CC prevent any unwanted effects due to it  
XX  
SQ Sequence 20 BP; 0 A; 8 C; 7 G; 5 T; 0 U; 0 Other;

```
Query Match      0.6%; Score 17.4; DB 1; Length 20;
Best Local Similarity 94.7%; Pred. No. 96;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 643 GGCAGCAGCGCGCAGCAGCG 661
Db 19 GGCAGCAGCGCGCAGCAGCG 1

RESULT 74
ABZ86068/c
ID ABZ86068 standard; DNA; 20 BP.
XX
AC ABZ86068;
XX
DT 17-OCT-2003 (first entry)
XX
DE Human oligonucleotide sequence.
XX
KW Human; antisense; lung dysfunction; nasal airway dysfunction;
KW antiinflammatory steroid; ubiqunone; antiinflammatory; antiallergic;
KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;
KW antisense gene therapy; respiratory; lung; adenosine sensitivity;
KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
KW lung inflammation; respiratory disease; ds.
XX
OS Homo sapiens.
XX
PN WO200285308-A2.
XX
PD 31-OCT-2002.
XX
PF 23-APR-2002; 2002WO-US013135.
XX
PR 24-APR-2001; 2001US-0286137P.
XX
PA (EPIG-) EPIGENESIS PHARM INC.
XX
PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;
PI Miller S, Tang L, Shahabuddin S;
XX
DR WPI; 2003-229219/22.
XX
Pharmaceutical composition for treating ailments associated with impaired
respiration, has oligo(s) antisense to specific gene(s) or its
corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
ubiquinone.
XX
Claim 15; SEQ ID NO 1310; 872pp; English.
XX
The invention relates to a novel pharmaceutical composition, which has a
first active agent comprising an oligonucleotide antisense to the
initiation codon, coding regions, 5' or 3' end genomic flanking regions,
5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of
junctions of genes encoding a polypeptide associated with lung and/or
nasal airway dysfunction and a second active agent comprising an
antiinflammatory steroid and ubiqunone. A composition of the invention
has antiinflammatory, antiallergic, antiasthmatic, hypotensive, or
immunosuppressive, and cytostatic activity. The composition may have a
use in antisense gene therapy. The composition is useful for treating or
preventing a respiratory, lung or malignant disease or condition, also
for enhancing the prophylactic or therapeutic respiratory effect of an
antiinflammatory steroid in a subject, for reducing or depleting levels
of, or reducing sensitivity to adenosine, reducing levels of adenosine
receptor, producing bronchodilation, increasing levels of ubiqunone or
lung surfactant in a subject's tissue, or treating bronchoconstriction,
lung inflammation, lung allergies, or a respiratory disease or condition.
Note: The sequence data for this patent is not represented in the printed
specification, but was obtained in electronic format directly from WIPO
at ftp.wipo.int/pub/published_pct_sequences
XX
Sequence 20 BP; 0 A; 8 C; 7 G; 5 T; 0 U; 0 Other;
```

```
Query Match      0.6%; Score 17.4; DB 1; Length 20;
Best Local Similarity 94.7%; Pred. No. 96;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 643 GGCAGCAGCGCGCAGCAGCG 661
Db 19 GGCAGCAGCGCGCAGCAGCG 1

RESULT 75
ADR18469/c
ID ADR18469 standard; DNA; 21 BP.
XX
AC ADR18469;
XX
DT 18-NOV-2004 (first entry)
XX
DE Human GOBLIN siRNA sense strand oligonucleotide SEQ ID NO:250.
XX
KW cancer; GOBLIN; micrometastasis; metastasis; cytostatic; gene therapy;
KW squamous cell carcinoma; hepatocellular carcinoma; melanoma;
KW head and neck cancer; adenocarcinoma; gastrointestinal cancer;
KW renal cell cancer; bladder cancer; prostate cancer;
KW non-squamous carcinoma; glioblastoma; medullablastoma; ovarian cancer;
KW basal cell carcinoma; clear cell carcinoma; endometrioid ovarian cancer;
KW mucinous ovarian cancer; breast cancer; lobular lesion; stromal lesion;
KW ductal carcinoma; ductal adenocarcinoma;
KW proliferative fibrocytic change; epitheliosis; intraductal papilloma;
KW atypical ductal hyperplasia; hyperproliferative disease; human;
KW small interfering RNA; siRNA; ss.
XX
OS Homo sapiens.
XX
SY Synthetic.
XX
FH Key Location/Qualifiers
FT misc_feature 1..19
FT /tag= a
FT /note= "human GOBLIN mRNA target sequence"
FT misc_feature 20..21
FT /tag= b
FT /note= "3'-extension dinucleotide TT overhang"
XX
WO2004072285-A1.
XX
26-AUG-2004.
XX
12-FEB-2004; 2004WO-AU000169.
XX
14-FEB-2003; 2003US-0447697P.
XX
(GARV-) GARVAN INST MEDICAL RES.
XX
Stanford P, Harris J, Ormandy C;
XX
WPI; 2004-625877/60.
XX
Detecting a cancer, e.g. breast or ovarian cancer, in a subject comprises
determining the level of expression of a GOBLIN gene in a sample.
XX
Claim 93; SEQ ID NO 250; 217pp; English.
XX
The present invention describes a method for detecting a cancer cell in a
subject. The method comprises determining the level of expression of a
GOBLIN gene in a sample of the subject where elevated expression of the
gene is indicative of a primary cancer or its micrometastasis or
metastasis. Also described: (1) an isolated GOBLIN nucleic acid molecule;
(2) a vector comprising the isolated nucleic acid of (1); (3) a
monoclonal or polyclonal antibody that binds specifically to a GOBLIN
polypeptide; (4) an isolated GOBLIN polypeptide, or its immunogenic
epitope; (5) a fusion protein comprising the isolated polypeptide of (4);
(6) a method of identifying a compound that reduces or antagonises
expression of a GOBLIN gene; (7) a process for identifying or determining
```

CC and producing a compound; (8) an isolated nucleic acid that antagonises  
CC expression of a GOBLIN gene, where the nucleic acid comprises a  
CC nucleotide sequence comprising any of the 21 bp sequences of SEQ ID  
CC NOS:46-353; (9) an isolated antisense nucleic acid that antagonises  
CC expression of a GOBLIN gene, where the nucleic acid comprises a  
CC nucleotide sequence capable of selectively hybridising to mRNA encoded by  
CC the isolated nucleic acid of (1); and (10) a process for monitoring the  
CC efficacy of treatment of a cancer in a subject. GOBLIN sequences have  
CC cytostatic activity, and can be used in gene therapy. An isolated GOBLIN  
CC nucleic acid molecule can be used for detecting a cancer cell. An  
CC isolated GOBLIN polypeptide can be used for producing an antibody. The  
CC method, nucleic acid molecules and the encoded polypeptides, and  
CC antibodies can be used for detecting a cancer, e.g. squamous cell  
CC carcinoma, hepatocellular carcinoma, melanoma, head and neck cancer,  
CC adenocarcinoma, gastrointestinal cancer (e.g. gastric, colon, or  
CC pancreatic cancer), renal cell cancer, bladder cancer, prostate cancer,  
CC non-squamous carcinoma, glioblastoma, medullablastoma, ovarian cancer  
CC (e.g. basal cell carcinoma, clear cell carcinoma, endometrioid ovarian  
CC cancer, or mucinous ovarian cancer), or breast cancer (e.g. lobular  
CC lesion, stromal lesion, ductal carcinoma, ductal adenocarcinoma,  
CC proliferative fibrocystic change, epitheliosis, intraductal papilloma, or  
CC atypical ductal hyperplasia) in a subject. The antagonist of GOBLIN  
CC function, method, and compound are useful for treating hyperproliferative  
CC disease, like cancer. The present sequence represents a small interfering  
CC RNA (siRNA) oligonucleotide targeted to human GOBLIN, which is used in  
CC the exemplification of the present invention.

XX Sequence 21 BP; 5 A; 0 C; 13 G; 3 T; 0 U; 0 Other;

Query Match 0.6%; Score 17.4; DB 1; Length 21;  
Best Local Similarity 94.7%; Pred. No. 1e+02;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 282 CTTCCACCACTCTCTCTC 300  
Db 19 CTTCCACCTCTCTCTCTC 1

RESULT 76  
ADU44465  
ID ADU44465 standard; DNA; 21 BP.

AC ADU44465;

XX 27-JAN-2005 (first entry)

XX Knock-down target sequence #9644.

XX ds: RNA production; protein production; drug development;  
KW knock-down target.

XX Unidentified.

XX WO2004094636-A1.

XX 04-NOV-2004.

XX 24-APR-2003; 2003WO-EP004362.

XX 24-APR-2003; 2003WO-EP004362.

XX (GALA-) GALAPAGOS GENOMICS NV.

XX (VSCH/) VAN DER SCHUEREN J.

XX Arts GJF, Lambrecht MJY, Djokic K, Claesen RJ, Mesic E;

XX Griffioen S, Bergs CJL;

XX WPI; 2004-775940/76.

XX New knockdown sequences, useful in lowering the amount of RNA and/or  
PT protein production in cells used in drug development process.

XX Claim 11; SEQ ID NO 9706; 402pp; English.

XX The invention relates to a polynucleotide comprising an RNA sequence. The  
CC polynucleotides, vector, libraries, and method are useful in lowering the  
CC amount of RNA and/or protein production in cells used in drug development  
CC process. The present sequence represents a knock-down target sequence.

SQ Sequence 21 BP; 8 A; 9 C; 1 G; 3 T; 0 U; 0 Other;

Query Match 0.6%; Score 17.4; DB 1; Length 21;  
Best Local Similarity 94.7%; Pred. No. 1e+02;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1650 CCACACCGACTTCAAGAAC 1668  
Db 3 CCACACCTACTTCAAGAAC 21

RESULT 77

ADH50651  
ID ADH50651 standard; DNA; 20 BP.

XX ADH50651;

XX 25-MAR-2004 (first entry)

XX Human IRAK-1 DNA, antisense oligonucleotide #45.

XX Antisense therapy; human; interleukin-1 receptor-associated kinase-1;  
KW IL-1 receptor-associated kinase-1; IRAK-1;

XX hyperproliferative disorder e.g.; cancer; autoimmune disorder;

XX altered bone metabolism or inflammation; cytotstatic; immunosuppressive;

XX osteopathic; antiinflammatory; phosphorothioate; ss.

XX Homo sapiens.

XX Key Location/Qualifiers  
FT modified\_base 1..20

FT /\*tag= a

FT /mod\_base= OTHER  
FT /note= "This oligonucleotide has a phosphorothioate  
FT backbone and 2'-methoxyethyl (2'-MOE) wings at the 5'  
FT and 3' ends, which are 5 nucleotides in length at each  
FT end. All cytidine residues are 5-methylcytidines"

PN US2003228690-A1.

XX 11-DEC-2003.

XX 10-JUN-2002; 2002US-00167034.

XX 10-JUN-2002; 2002US-00167034.

XX (ISIS-) ISIS PHARM INC.

XX Baker BF, Freier SM, Dobie KW;

XX WPI; 2004-052028/05.

XX New compound having a sequence targeted to a nucleic acid encoding IL-1  
PT receptor-associated kinase-1, useful for preparing a composition for  
PT treating hyperproliferative or autoimmune disorder or inflammation.

XX Example 15; SEQ ID NO 58; 66pp; English.

XX The present invention relates to antisense compounds targeted to a  
CC nucleic acid encoding interleukin-1 (IL-1) receptor-associated kinase-1  
CC (IRAK-1). The antisense compound comprises an antisense oligonucleotide  
CC that specifically hybridises with the nucleic acid and inhibits the  
CC expression of IRAK-1. The antisense oligonucleotide is a chimeric  
CC oligonucleotide. The antisense oligonucleotide comprises at least one  
CC modified internucleoside linkage, preferably a phosphorothioate linkage.  
CC It also comprises at least one modified sugar moiety, preferably a 2'-O-  
CC methoxyethyl (2'-MOE) sugar moiety. The antisense oligonucleotide further

CC comprises at least one modified nucleobase, preferably a 5-methylcytosine. The antisense oligonucleotides are useful for the treatment of diseases such as hyperproliferative disorders, e.g. cancer, autoimmune disorders, altered bone metabolism, and inflammation. The present sequence represents an antisense oligonucleotide used in the examples of the present invention.

XX Sequence 20 BP; 3 A; 7 C; 9 G; 1 T; 0 U; 0 Other;

SQ Query Match 0.6%; Score 17; DB 1; Length 20;

Best Local Similarity 100.0%; Pred. No. 1.1e+02; Indels 0; Gaps 0; Mismatches 0; Conservative 0;

QY 633 CGCGCGTGCAGGACGA 649

DB 4 CGCGCGTGCAGGACGA 20

RESULT 78

ADH50718/c

ID ADH50718 standard; DNA; 20 BP.

XX AC ADH50718;

XX DT 25-MAR-2004 (first entry)

XX DE Human IRAK-1 DNA target sequence #40.

XX KW Antisense therapy; human; interleukin-1 receptor-associated kinase-1;

XX KW IL-1 receptor-associated kinase-1; IRAK-1;

XX KW hyperproliferative disorder e.g.; cancer; autoimmune disorder;

XX KW altered bone metabolism or inflammation; cytostatic; immunosuppressive;

XX KW osteopathic; antiinflammatory; ds.

XX OS Homo sapiens.

XX PN US2003228690-A1.

XX PD 11-DEC-2003.

XX PF 10-JUN-2002; 2002US-00167034.

XX PR 10-JUN-2002; 2002US-00167034.

XX PA (ISIS-) ISIS PHARM INC.

XX PI Baker BF, Freier SM, Dobie KW;

XX DR WPI; 2004-052028/05.

XX PT New compound having a sequence targeted to a nucleic acid encoding IL-1

XX PT receptor-associated kinase-1, useful for preparing a composition for

XX PT treating hyperproliferative or autoimmune disorder or inflammation.

XX PS Example 15; SEQ ID NO 125; 66pp; English.

XX CC The present invention relates to antisense compounds targeted to a

XX CC nucleic acid encoding interleukin-1 (IL-1) receptor-associated kinase-1

XX CC (IRAK-1). The antisense compound comprises an antisense oligonucleotide

XX CC that specifically hybridizes with the nucleic acid and inhibits the

XX CC expression of IRAK-1. The antisense oligonucleotide is a chimeric

XX CC oligonucleotide. The antisense oligonucleotide comprises at least one

XX CC modified internucleoside linkage, preferably a phosphorothioate linkage.

XX CC It also comprises at least one modified sugar moiety, preferably a 2'-O-

XX CC methoxyethyl (2'-MOE) sugar moiety. The antisense oligonucleotide further

XX CC comprises at least one modified nucleobase, preferably a 5-

XX CC methylcytosine. The antisense oligonucleotides are useful for the

XX CC treatment of diseases such as hyperproliferative disorders, e.g. cancer,

XX CC autoimmune disorders, altered bone metabolism, and inflammation. The

XX CC present sequence represents a human IRAK-1 DNA target sequence for an

XX CC antisense oligonucleotide.

XX SQ Sequence 20 BP; 1 A; 9 C; 7 G; 3 T; 0 U; 0 Other;

Query Match 0.6%; Score 17; DB 1; Length 20;

Best Local Similarity 100.0%; Pred. No. 1.1e+02;

Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 633 CGCGCGTGCAGGACGA 649

DB 17 CGCGCGTGCAGGACGA 1

RESULT 79

AEB56580

ID AEB56580 standard; DNA; 20 BP.

XX AC AEB56580;

XX DT 22-SEP-2005 (first entry)

XX DE Antisense oligonucleotide targeting human TGF-beta-1, ISIS 104984.

XX KW Transforming growth factor beta; cytokine; antisense oligonucleotide;

XX KW fibrosis; cancer; ss; antiinflammatory; antifibrotic; inflammation;

XX KW scarring; vulnary; pulmonary fibrosis; respiratory-gen.;

XX KW 2'-O-methoxyethyl; 2'-MOE; cytosine methylation; phosphorothioate.

XX OS Homo sapiens.

XX FH Key Location/Qualifiers

XX FT modified\_base 1..20

XX FT /\*tag= b

XX FT /mod\_base= OTHER

XX FT /note= "Al cytosines are 5-methyl-cytosines and all

XX FT linkages are phosphorothioate linkages"

XX FT modified\_base 1

XX FT /\*tag= a

XX FT /mod\_base= OTHER

XX FT /note= "2'-methoxyethyl residue"

XX FT modified\_base 11..20

XX FT /\*tag= c

XX FT /mod\_base= OTHER

XX FT /note= "2'-methoxyethyl residue"

XX WO200119161-A2.

XX PD 22-MAR-2001.

XX PF 14-SEP-2000; 2000WO-US025272.

XX PR 17-SEP-1999; 99US-0154546P.

XX PA (ISIS-) ISIS PHARM INC.

XX PI Dean NM, Murray SF;

XX DR WPI; 2001-244652/25.

XX PT Antisense oligonucleotide compounds for modulating expression of

XX PT transforming growth factor beta, and for treating fibrosis and

XX PT inflammation.

XX PS Example 19; SEQ ID NO 35; 97pp; English.

XX CC The invention relates to antisense compounds, especially oligonucleotides

XX CC specifically hybridizable with nucleic acids encoding human transforming

XX CC growth factor-beta (TGF-beta), can modulate the expression of TGF-beta

XX CC (either beta 1 or beta 2). Also included are methods of inhibiting the

XX CC expression of TGF-beta1 and TGF-beta2 (comprising contacting cells or

XX CC tissues with the antisense compounds) and methods of treating an animal

XX CC having a disease/condition associated with TGF-beta1/TGF-beta2 comprising

XX CC the administration of the compounds. The compounds are antisense

XX CC oligonucleotides, comprising at least one modified internucleoside

XX CC linkage, especially a phosphorothioate linkage. They may comprise at

XX CC least one modified sugar moiety, especially a 2'-O-methoxyethyl sugar

CC moiety. They may comprise at least one modified nucleobase, especially a  
CC 5-methylcytosine. The compounds are used for treating inflammation or  
CC fibrosis or a fibrotic condition, especially fibrotic scarring,  
CC peritoneal adhesions, lung fibrosis, conjunctival scarring and in cancer.  
CC The present sequence is an antisense oligonucleotide targeting TGF-beta-1  
CC cDNA from human.  
XX  
SQ Sequence 20 BP; 5 A; 6 C; 8 G; 1 T; 0 U; 0 Other;  
  
Query Match 0.6%; Score 17; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 1.1e+02;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 644 GCAGCAGCGGCAGCAGC 660  
DB 4 GCAGCAGCGGCAGCAGC 20  
  
RESULT 80  
ID ABK68092/c  
XX ABK68092 standard; DNA; 21 BP.  
XX AC ABK68092;  
XX  
DT 02-JUL-2002 (first entry)  
XX  
DE Mouse HYPLIP1 locus specific primer D3pdlmg5 #1.  
XX  
KW Mouse; primer; antilipaeamic; cardiatic; hypotensive; anorectic; HYPLIP1;  
KW FCHL1; lipid disorder; familial combined hyperlipidaemia;  
KW coronary artery disease; atherogenic lipoprotein phenotype; cancer;  
KW hyperapobetalipoproteinaemia; hypertriglyceridaemia; obesity; ss;  
KW familial dyslipidaemic hypertension; syndrome X; insulin resistance;  
KW hypercholesterolaemia; chromosome 3.  
XX  
OS Mus sp.  
XX  
XX WO200220847-A2.  
XX  
PD 14-MAR-2002.  
XX  
XX 07-SEP-2001; 2001WO-US028181.  
XX  
XX 08-SEP-2000; 2000US-0231322P.  
XX  
XX (REGC ) UNIV CALIFORNIA.  
XX  
XX Bodnar JS, Castellani LW, Chatterjee A, De Jong P, Lusis AJ;  
PI Ohmen J, Ross D, Tafuri S, Wu C;  
XX WPI; 2002-339808/37.  
DR  
XX  
PT Novel HYPLIP1 and FCHL1 genes and their sequence variations associated  
PT with lipid disorder and cancer, useful for prognosis, diagnosis and  
PT treatment of lipid disorders.  
XX  
PS Claim 11; Page 72; 102pp; English.  
XX  
CC This invention relates to the cDNA and protein sequences of novel  
CC proteins HYPLIP1 or FCHL1 and to sequence variations within these genes  
CC that have been shown to be associated with lipid disorders.  
CC Oligonucleotide probes that hybridise to the cDNA sequence are useful for  
CC analysing the expression of FCHL1 by detecting the expression of the mRNA  
CC transcript in the sample. A host cell transformed with the cDNA of the  
CC invention is useful for producing the protein by recombinant means.  
CC Pharmaceutical compositions based on the sequences of the invention are  
CC useful for treating or preventing a lipid disorder associated with  
CC expression of FCHL1 such as familial combined hyperlipidaemia, coronary  
CC artery disease, atherogenic lipoprotein phenotype,  
CC hyperapobetalipoproteinaemia, hypertriglyceridaemia, familial  
CC dyslipidaemic hypertension, syndrome X, obesity, insulin resistance and  
CC hypercholesterolaemia. The cDNA sequence is useful in the diagnosis or  
CC prognosis of predisposition to lipid disorders and cancers, and also to

CC identify a molecule which enhances or decreases the HYPLIP1 or FCHL1  
CC activity. The present sequence represents an oligonucleotide primer  
CC specific for the mouse HYPLIP1 locus of the invention. The mouse HYPLIP1  
CC locus is situated on chromosome 3  
XX  
SQ Sequence 21 BP; 6 A; 4 C; 7 G; 4 T; 0 U; 0 Other;  
  
Query Match 0.6%; Score 17; DB 1; Length 21;  
Best Local Similarity 100.0%; Pred. No. 1.1e+02;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 65 TGCCTCAACCTTCTGAG 81  
DB 20 TGCCTCAACCTTCTGAG 4  
  
RESULT 81  
ID ABK70996/c  
XX ABK70996 standard; DNA; 21 BP.  
XX AC ABK70996;  
XX  
DT 15-JUL-2002 (first entry)  
XX  
DE Mouse HYPLIP1 locus PCR primer #69.  
XX  
KW Human; mouse; HYPLIP1; FCHL1; familial combined hyperlipidaemia; cancer;  
KW lipid disorder; PCR; primer; ss.  
XX  
OS Mus sp.  
XX  
XX WO200220848-A2.  
XX  
PD 14-MAR-2002.  
XX  
XX 07-SEP-2001; 2001WO-US028182.  
XX  
XX 08-SEP-2000; 2000US-0231322P.  
XX  
XX (REGC ) UNIV CALIFORNIA.  
XX  
XX Bodnar JS, Castellani LW, Chatterjee A, De Jong P, Lusis AJ;  
PI Ohmen J, Ross D, Tafuri S, Wu C;  
XX WPI; 2002-329882/36.  
XX  
XX New mouse HYPLIP1 and human FCHL1 (familial combined hyperlipidaemia)  
PT genes and their sequence variations, useful for diagnosing, treating or  
PT preventing lipid disorders and cancers.  
XX  
PS Claim 11; Page 72; 102pp; English.  
XX  
CC The invention relates to an isolated polynucleotide comprising a sequence  
CC variation of a mouse HYPLIP1 cDNA or a human FCHL1 (familial combined  
CC hyperlipidaemia) gene. The FCHL1 polynucleotide, the FCHL1 polypeptide or  
CC antibody immunoreactive to the FCHL1 polypeptide are useful for treating  
CC or preventing cancer associated with expression of FCHL1, as well as for  
CC treating lipid disorder. The mouse HYPLIP1 cDNA or human FCHL1 gene are  
CC also useful for diagnosing or prognosing a predisposition to lipid  
CC disorder and cancer. ABK70902-ABK71303 represent mouse HYPLIP1, human  
CC FCHL1 coding sequences and PCR primers of the invention  
XX  
SQ Sequence 21 BP; 6 A; 4 C; 7 G; 4 T; 0 U; 0 Other;  
  
Query Match 0.6%; Score 17; DB 1; Length 21;  
Best Local Similarity 100.0%; Pred. No. 1.1e+02;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 65 TGCCTCAACCTTCTGAG 81  
DB 20 TGCCTCAACCTTCTGAG 4



RESULT 82  
ADA15135/c  
ID ADA15135 standard; DNA; 21 BP.  
XX AC  
XX ADA15135;  
XX DT  
XX 06-NOV-2003 (first entry)  
XX DE Mouse HYPLIP1 locus PCR primer #75.  
XX Mouse; PCR; primer; ss; HYPLIP1; FCHL1; variation; lipid disorder;  
KW allele; anti-lipid disorder; anti-cancer therapy; gene therapy;  
KW familial combined hyperlipidaemia; coronary artery disease;  
KW atherogenic lipoprotein phenotype; hyperapobetalipoproteinaemia;  
KW hypertriglyceridaemia; low density lipoprotein subclass B; LDL;  
KW familial dyslipidemic hypertension; syndrome X; hypercholesterolaemia;  
KW obesity; insulin resistance; cancer; cytostatic; antilipemic;  
KW hypotensive; anorectic.  
XX OS Mus sp.  
XX PN US2003064372-A1.  
XX PD 03-APR-2003.  
XX PF 07-SEP-2001; 2001US-00949428.  
XX PR 22-JUN-2000; 2000US-0213322P.  
XX PA (BODN/) BODNAR J S.  
XX PA (CAST/) CASTELLANI L W.  
XX PA (CHAT/) CHATTERJEE A.  
XX PA (JONG/) JONG P D.  
XX PA (LUSI/) LUSIS A J.  
XX PA (OHME/) OHMEN J.  
XX PA (ROSS/) ROSS D.  
XX PA (TAFU/) TAFURI S.  
XX PA (WUCC/) WU C.  
XX Bodnar JS, Castellani LW, Chatterjee A, Jong PD, Lusis AJ;  
XX Ohmen J, Ross D, Tafuri S, Wu C;  
XX WPI; 2003-540780/51.  
XX Novel isolated polynucleotide comprising a mouse or human familial  
XX combined hyperlipidaemia 1 gene having a variation that is associated with  
XX a lipid disorder, useful for identifying susceptibility to the lipid  
XX disorder.  
XX Claim 11; Page 38; 63pp; English.  
XX The invention discloses isolated polynucleotides comprising mouse HYPLIP1  
XX cDNA sequence, mouse HYPLIP1 genomic DNA, or the homologous human  
XX familial combined hyperlipidaemia 1 (FCHL1) gene, where a variation in  
XX the sequence is associated with a lipid disorder. Also claimed is an  
XX isolated polypeptide comprising a variant form of the mouse HYPLIP1 amino  
XX acid sequence, or a variant form of a fully defined human FCHL1 amino  
XX acid sequence, where the variant is associated with the lipid disorder.  
XX an isolated polynucleotide having at least 12 contiguous nucleotides of  
XX the isolated polynucleotides, where the 12 contiguous nucleotides span  
XX the variation position, an isolated polypeptide comprising 4 contiguous  
XX amino acids of the encode polypeptides, where the 4 contiguous amino  
XX acids span the variation position, a kit for the detection of the FCHL1  
XX locus comprising, an isolated antibody, identifying susceptibility to a  
XX lipid disorder which comprises comparing the nucleotide sequence of the  
XX suspected FCHL1 allele with a wild-type FCHL1 nucleotide sequence, where  
XX the difference between the suspected allele and the wild-type sequence  
XX identifies a sequence variation of FCHL1 nucleotide sequence and a  
XX pharmaceutical composition. Also disclosed is a transgenic animal which  
XX carries an altered HYPLIP1 or FCHL1 allele and a method for screening  
XX drugs for inhibition or restoration of FCHL1 gene function as an anti-  
XX lipid disorder or anti-cancer therapy. the polynucleotides, polypeptides  
XX and antibodies are useful for treating or preventing (e.g. gene therapy)

CC a lipid disorder associated with expression of FCHL1, for diagnosis or  
CC prognosis of predisposition to lipid disorder, and cancer and for  
CC treating a lipid disorder such as familial combined hyperlipidaemia,  
CC coronary artery disease, atherogenic lipoprotein phenotype,  
CC hyperapobetalipoproteinaemia, hypertriglyceridaemia, low density  
CC lipoprotein (LDL) subclass B, familial dyslipidemic hypertension,  
CC syndrome X, hypercholesterolaemia, obesity, insulin resistance and  
CC cancer. The sequence presented is a PCR primer which was used to amplify  
XX part of the mouse HYPLIP1 locus.  
XX SQ Sequence 21 BP; 6 A; 4 C; 7 G; 4 T; 0 U; 0 Other;  
Query Match 0.6%; Score 17; DB 1; Length 21;  
Best Local Similarity 100.0%; Pred. No. 1.1e+02;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 65 TGCCTCAACCTTCTGAG 81  
DB 20 TGCCTCAACCTTCTGAG 4  
RESULT 83  
ADB95697/c  
ID ADB95697 standard; DNA; 21 BP.  
XX AC ADB95697;  
XX DT 04-DEC-2003 (first entry)  
XX DE Mouse HYPLIP1 PCR primer #75.  
XX KW cytostatic; antilipemic; gene therapy; peptide therapy; HYPLIP1; FCHL1;  
KW cancer; metabolic pathway; cellular mechanism; lipid disorder;  
KW familial combined hyperlipidaemia; mouse; PCR; primer; ss.  
XX OS Mus sp.  
XX PN US2003054418-A1.  
XX PD 20-MAR-2003.  
XX PF 07-SEP-2001; 2001US-00949427.  
XX PR 08-SEP-2000; 2000US-0231322P.  
XX PA (BODN/) BODNAR J S.  
XX PA (CAST/) CASTELLANI L W.  
XX PA (CHAT/) CHATTERJEE A.  
XX PA (JONG/) JONG P D.  
XX PA (LUSI/) LUSIS A J.  
XX PA (OHME/) OHMEN J.  
XX PA (ROSS/) ROSS D.  
XX PA (TAFU/) TAFURI S.  
XX PA (WUCC/) WU C.  
XX Bodnar JS, Castellani LW, Chatterjee A, Jong PD, Lusis AJ;  
XX Ohmen J, Ross D, Tafuri S, Wu C;  
XX WPI; 2003-695901/66.  
XX Novel human FCHL1 or mouse HYPLIP1 polypeptide, useful for drug  
XX screening, peptide therapy of lipid disorder or cancer.  
XX Claim 11; Page 35; 56pp; English.  
XX The invention describes an isolated polypeptide (I) comprising a variant  
XX form of a mouse HYPLIP1 polypeptide sequence (S1) or a human FCHL1  
XX polypeptide sequence (S2), not given in the specification, where the  
XX variant form is associated with cancer, or an amino acid sequence having  
XX at least 65 % sequence identity to (S1) or (S2). A composition comprising  
XX DNA encoding (I) is useful for treating or preventing cancer associated  
XX with expression of FCHL1. FCHL1 gene or HYPLIP1 gene and its product are  
XX useful for the study of metabolic pathway and cellular mechanism to

CC identify other genes, receptors and relationships that contribute to  
 CC lipid disorder and cancer. FCHL1 gene or its fragments are useful in gene  
 CC therapy to increase the amount of the expression products of the gene for  
 CC the treatment of lipid disorder or cancerous cells. The sequence  
 CC variation of FCHL1 gene or HYPLI1 gene is also useful in the diagnosis  
 CC and prognosis of predisposition to lipid disorder and cancer. Antisense  
 CC polynucleotide sequences are useful in preventing or diminishing the  
 CC expression of HYPLI1 or FCHL1 locus. This sequence represents a primer  
 CC used in the analysis of the mouse HYPLI1 gene.  
 XX  
 SQ Sequence 21 BP; 6 A; 4 C; 7 G; 4 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 17; DB 1; Length 21;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+02;  
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 65 TGCTCAACCTTCTGAG 81  
 Db 20 TGCTCAACCTTCTGAG 4  
 RESULT 84  
 AAC87229/c  
 ID AAC87229 standard; DNA; 20 BP.  
 AC AAC87229;  
 XX  
 DT 09-MAR-2001 (first entry)  
 XX  
 DE Digoxigenin-labelled poly C oligonucleotide, SEQ ID NO:8.  
 XX  
 KW Immunostimulatory oligodeoxynucleotide; immunostimulatory ODN;  
 KW immunostimulatory DNA-binding protein; nucleolin; hnRNP D; AUF1;  
 KW hnRNP A1; lupus La protein; functional modifier identification; agonist;  
 KW antagonist; mimic; inhibitor; drug screening;  
 KW cellular target identification; oligonucleotide optimisation;  
 KW immunotherapy; ss.  
 XX  
 OS Synthetic.  
 OS  
 PN WO200067023-A1.  
 XX  
 PD 09-NOV-2000.  
 XX  
 PF 28-APR-2000; 2000WO-US011697.  
 XX  
 PR 29-APR-1999; 99US-0131830P.  
 PR 03-MAR-2000; 2000US-0186845P.  
 XX  
 PA (CPGI-) CPG IMMUNOPHARMACEUTICALS GMBH.  
 PA (IOWA ) UNIV IOWA RES FOUND.  
 XX  
 PI Noll BO, Schetter C, Krieg AM;  
 XX  
 DR WPI; 2001-016002/02.  
 XX  
 PT Immunostimulatory DNA binding proteins to identify immunostimulatory DNA  
 PT functional modifiers, immunostimulatory DNA binding competitors and to  
 PT optimize immunostimulatory oligodeoxynucleotides for stimulation.  
 XX  
 PS Example 1; Page 45; 95pp; English.  
 XX  
 CC The invention relates to the use of an immunostimulatory single-stranded  
 CC DNA-binding protein in screening assays to identify compounds which bind  
 CC to it and thereby act as functional modifiers of immunostimulatory  
 CC oligodeoxynucleotide (ODN) activity. Such modifiers of ODN activity  
 CC consist of immunostimulatory DNA binding inhibitors, immunostimulatory  
 CC DNA mimics, and immunostimulatory DNA agonists and antagonists.  
 CC Immunostimulatory DNA-binding proteins can also be used in screening  
 CC methods to identify immunostimulatory DNA binding competitors, and to  
 CC optimize an immunostimulatory ODN for immune stimulation. Isolated  
 CC complexes of an immunostimulatory DNA-binding protein bound to an  
 CC immunostimulatory ODN can additionally be used to screen a panel of

CC candidate target molecules to identify the cellular target molecules of  
 CC the immunostimulatory ODN. The immunostimulatory DNA-binding proteins  
 CC used in the methods of the invention are the RNA-binding proteins  
 CC nucleolin, hnRNP D, AUF1, hnRNP A1 and lupus La protein. The screening  
 CC methods are useful for identifying a compound that inhibits interaction  
 CC between immunostimulatory DNA and an immunostimulatory DNA-binding  
 CC protein and for identifying agonists useful in immunotherapy. The complex  
 CC is useful in screening for immunostimulatory DNA cellular target  
 CC molecules. The candidate immunostimulatory ODN competitors allow the  
 CC investigation of structure/activity relationships of immunostimulatory  
 CC DNA-binding proteins and immunostimulatory ODNs. The present sequence  
 CC represents an oligonucleotide used in an exemplification of the invention  
 XX  
 SQ Sequence 20 BP; 0 A; 20 C; 0 G; 0 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 206 GGGGGGTGGGGTGGGGGGG 225  
 Db 20 GGGGGGGGGGGGGGGGGG 1  
 RESULT 85  
 AAC87239/c  
 ID AAC87239 standard; DNA; 20 BP.  
 XX  
 AC AAC87239;  
 XX  
 DT 09-MAR-2001 (first entry)  
 XX  
 DE Phosphorothioate poly C oligonucleotide, SEQ ID NO:18.  
 XX  
 KW Immunostimulatory oligodeoxynucleotide; immunostimulatory ODN;  
 KW immunostimulatory DNA-binding protein; nucleolin; hnRNP D; AUF1;  
 KW hnRNP A1; lupus La protein; functional modifier identification; agonist;  
 KW antagonist; mimic; inhibitor; drug screening;  
 KW cellular target identification; oligonucleotide optimisation;  
 KW immunotherapy; ss.  
 XX  
 OS Synthetic.  
 OS  
 PN WO200067023-A1.  
 XX  
 PD 09-NOV-2000.  
 XX  
 PF 28-APR-2000; 2000WO-US011697.  
 XX  
 PR 29-APR-1999; 99US-0131830P.  
 PR 03-MAR-2000; 2000US-0186845P.  
 XX  
 PA (CPGI-) CPG IMMUNOPHARMACEUTICALS GMBH.  
 PA (IOWA ) UNIV IOWA RES FOUND.  
 XX  
 PI Noll BO, Schetter C, Krieg AM;  
 XX  
 DR WPI; 2001-016002/02.  
 XX  
 PT Immunostimulatory DNA binding proteins to identify immunostimulatory DNA  
 PT functional modifiers, immunostimulatory DNA binding competitors and to  
 PT optimize immunostimulatory oligodeoxynucleotides for stimulation.  
 XX  
 PS Example 1; Page 45; 95pp; English.  
 XX  
 CC The invention relates to the use of an immunostimulatory single-stranded  
 CC DNA-binding protein in screening assays to identify compounds which bind  
 CC to it and thereby act as functional modifiers of immunostimulatory  
 CC oligodeoxynucleotide (ODN) activity. Such modifiers of ODN activity  
 CC consist of immunostimulatory DNA binding inhibitors, immunostimulatory  
 CC DNA mimics, and immunostimulatory DNA agonists and antagonists.  
 CC Immunostimulatory DNA-binding proteins can also be used in screening  
 CC methods to identify immunostimulatory DNA binding competitors, and to  
 CC optimize an immunostimulatory ODN for immune stimulation. Isolated  
 CC complexes of an immunostimulatory DNA-binding protein bound to an  
 CC immunostimulatory ODN can additionally be used to screen a panel of

CC optimize an immunostimulatory ODN for immune stimulation. Isolated  
 CC complexes of an immunostimulatory DNA-binding protein bound to an  
 CC immunostimulatory ODN can additionally be used to screen a panel of  
 CC candidate target molecules to identify the cellular target molecules of  
 CC the immunostimulatory ODN. The immunostimulatory DNA-binding proteins  
 CC used in the methods of the invention are the RNA-binding proteins  
 CC nucleolin, hnRNP D, AUFI, hnRNP A1 and lupus La protein. The screening  
 CC methods are useful for identifying a compound that inhibits interaction  
 CC between immunostimulatory DNA and an immunostimulatory DNA-binding  
 CC protein and for identifying agonists useful in immunotherapy. The complex  
 CC is useful in screening for immunostimulatory DNA cellular target  
 CC molecules. The candidate immunostimulatory ODN competitors allow the  
 CC investigation of structure/activity relationships of immunostimulatory  
 CC DNA-binding proteins and immunostimulatory ODNs. The present sequence  
 CC represents an oligonucleotide used in an exemplification of the invention  
 XX  
 XX Sequence 20 BP; 0 A; 20 C; 0 G; 0 T; 0 U; 0 Other;

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGGGG 225  
 ||||| ||||| ||||| |||||  
 Db 20 GGGGGGGGGGGGGGGGGG 1

## RESULT 86

AAC87242/c  
 ID AAC87242 standard; DNA; 20 BP.

XX AAC87242;

DT 09-MAR-2001 (first entry)

XX Poly C oligonucleotide, SEQ ID NO:21.

XX Immunostimulatory oligodeoxynucleotide; immunostimulatory ODN;  
 KW immunostimulatory DNA-binding protein; nucleolin; hnRNP D; AUFI;  
 KW hnRNP A1; lupus La protein; functional modifier identification; agonist;  
 KW antagonist; mimic; inhibitor; drug screening;  
 KW cellular target identification; oligonucleotide optimisation;  
 KW immunotherapy; ss.

XX Synthetic.

XX WO200067023-A1.

XX 09-NOV-2000.

PD 28-APR-2000; 2000WO-US011697.

PF 29-APR-1999; 99US-0131830P.

PR 03-MAR-2000; 2000US-0186845P.

XX (CPGI-) CPG IMMUNOPHARMACEUTICALS GMBH.

PA (IOWA ) UNIV IOWA RES FOUND.

XX Noll BO, Schetter C, Krieg AM;

PI WPI; 2001-016002/02.

XX Immunostimulatory DNA binding proteins to identify immunostimulatory DNA  
 PT functional modifiers, immunostimulatory DNA binding competitors and to  
 PT optimize immunostimulatory oligodeoxynucleotides for stimulation.

PS Example 1; Page 45; 95pp; English.

XX The invention relates to the use of an immunostimulatory single-stranded  
 CC DNA-binding protein in screening assays to identify compounds which bind  
 CC to it and thereby act as functional modifiers of immunostimulatory  
 CC oligodeoxynucleotide (ODN) activity. Such modifiers of ODN activity  
 CC consist of immunostimulatory DNA binding inhibitors, immunostimulatory

CC DNA mimics, and immunostimulatory DNA agonists and antagonists.  
 CC Immunostimulatory DNA-binding proteins can also be used in screening  
 CC methods to identify immunostimulatory DNA binding competitors, and to  
 CC optimize an immunostimulatory ODN for immune stimulation. Isolated  
 CC complexes of an immunostimulatory DNA-binding protein bound to an  
 CC immunostimulatory ODN can additionally be used to screen a panel of  
 CC candidate target molecules to identify the cellular target molecules of  
 CC the immunostimulatory ODN. The immunostimulatory DNA-binding proteins  
 CC used in the methods of the invention are the RNA-binding proteins  
 CC nucleolin, hnRNP D, AUFI, hnRNP A1 and lupus La protein. The screening  
 CC methods are useful for identifying a compound that inhibits interaction  
 CC between immunostimulatory DNA and an immunostimulatory DNA-binding  
 CC protein and for identifying agonists useful in immunotherapy. The complex  
 CC is useful in screening for immunostimulatory DNA cellular target  
 CC molecules. The candidate immunostimulatory ODN competitors allow the  
 CC investigation of structure/activity relationships of immunostimulatory  
 CC DNA-binding proteins and immunostimulatory ODNs. The present sequence  
 CC represents an oligonucleotide used in an exemplification of the invention  
 XX  
 XX Sequence 20 BP; 0 A; 20 C; 0 G; 0 T; 0 U; 0 Other;

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGGGG 225  
 ||||| ||||| ||||| |||||

Db 20 GGGGGGGGGGGGGGGGGG 1

## RESULT 87

AAD18515  
 ID AAD18515 standard; DNA; 20 BP.

XX AAD18515;

DT 18-DEC-2001 (first entry)

XX Biotinylated oligonucleotide used for DNA hybridisation.

XX Diffraction binding assay; multiple analyte assay;

XX light diffraction assay; ss.

XX Unidentified.

XX Key Location/Qualifiers

XX modified\_base 20

XX /\*tag= a

XX /mod\_base= OTHER

XX /note= "Biotin labelled"

XX WO200171322-A2.

XX 27-SEP-2001.

XX 22-MAR-2001; 2001WO-CA000367.

XX 22-MAR-2000; 2000US-0191344P.

XX (GOHM/) GOH M C.

XX (GOHJ/) GOH J B.

XX (MCAL/) MCALONEY R.

XX (LOOR/) LOO R.

XX Goh MC, Goh JB, Mcaloney R, Loo R;

XX WPI; 2001-611529/70.

XX Simultaneous detection of diffraction binding assay by contacting surface  
 PT of substrate with medium to bind pre-selected analytes with analyte-  
 PT specific receptors, illuminating, detecting, analyzing, and identifying  
 PT analytes.

PS Example 10; Page 30; 54pp; English.

XX The present invention relates to a diffraction binding assay method and

CC apparatus for assay of multiple analytes. The assay is detected

CC simultaneously by contacting a surface of a substrate with medium to

CC permit pre-selected analytes present in solution to bind with their

CC analyte-specific receptors, illuminating the substrate, detecting light

CC diffracted from the substrate, analysing the diffracted light, and

CC identifying from diffraction image one or more analytes present in the

CC medium. The method is used for detecting simultaneously at least two

CC analytes. It is useful in a light diffraction assay for detecting the

CC presence or absence of at least two analytes. The present DNA sequence is

CC a biotinylated oligonucleotide which is used for DNA hybridisation in the

CC exemplification of the invention

XX

XX Sequence 20 BP; 0 A; 0 C; 20 G; 0 T; 0 U; 0 Other;

XX

Query Match 0.6%; Score 16.8; DB 1; Length 20;

XX Best Local Similarity 90.0%; Pred. No. 1.1e+02;

XX Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

XX

QY 206 GGGGGGGTGGGTGGGGGG 225

Db 1 GGGGGGGGGGGGGGGGGG 20

RESULT 88

AAD37201

ID AAD37201 standard; DNA; 20 BP.

AC AAD37201;

XX

XX 21-AUG-2002 (first entry)

DE Human MEKK4 antisense oligonucleotide, ISIS #123136.

XX

XX Human; MEKK4 modulation; mitogen-activated protein kinase kinase 4; MTK1;

KW MAP3K4; MAP three kinase 1; MAP/ERK kinase kinase 4; MAPKKK4; cytosolic;

KW prophyllaxis; immunological; hyperproliferative disorder; cancer; therapy;

KW antisense; inflammatory; phosphorothioate backbone; ss.

XX

OS Homo sapiens.

OS Synthetic.

XX

FH Key Location/Qualifiers

FT modified\_base 1..20

FT /\*tag= a

FT /mod\_base= OTHER

FT /note= "Phosphorothioate backbone"

FT modified\_base 1..5

FT /\*tag= b

FT /mod\_base= OTHER

FT /note= "2'-methoxyethyl nucleotides"

FT modified\_base 2

FT /\*tag= d

FT /mod\_base= m5C

FT modified\_base 5

FT /\*tag= e

FT /mod\_base= m5C

FT modified\_base 8

FT /\*tag= f

FT /mod\_base= m5C

FT modified\_base 11

FT /\*tag= g

FT /mod\_base= m5C

FT modified\_base 14

FT /\*tag= h

FT /mod\_base= m5C

FT modified\_base 16..20

FT /\*tag= c

FT /mod\_base= OTHER

FT /note= "2'-methoxyethyl nucleotides"

FT modified\_base 17

FT /\*tag= i

FT /mod\_base= m5C

FT modified\_base 20

FT /\*tag= j

FT /mod\_base= m5C

XX

PN WO200227033-A1.

XX

XX 04-APR-2002.

PD

XX

XX 28-SEP-2001; 2001WO-US030549.

PF

XX

XX 29-SEP-2000; 2000US-00676436.

PR

XX

XX (ISIS-) ISIS PHARM INC.

PA

XX

XX Ward DT, Gaarde WA, Monia BP, Wyatt JR;

PI

XX

XX WPI; 2002-416486/44.

DR

XX

XX New antisense compound targeted to nucleic acid encoding mitogen-

PT activated protein kinase 4, useful for treating immunologic disorder,

PT inflammatory disorder or cancer.

PT

XX

XX Claim 3; Page 93; 132pp; English.

PS

XX

XX The present invention relates to antisense compounds, compositions and

CC methods for modulating the expression of MEKK4 (also referred as mitogen-

CC activated protein kinase kinase 4; MAP3K4; MAP three kinase 1; MAP/ERK

CC kinase kinase 4; MAPKKK4; MTK1). The antisense oligos are useful for

CC inhibiting the expression of MEKK4 in cells or tissues. They are also

CC useful for treating an animal having a disease or condition associated

CC with MEKK4 such as immunological, inflammatory, hyperproliferative

CC disorder or cancer. Sequences of the invention are also useful for

CC diagnostics, therapeutics, prophylaxis and as research reagents and kits.

CC They are also useful in antisense therapy. The present sequence is an

CC antisense oligonucleotide targeted to human MEKK4 DNA. This sequence is

CC used in the exemplification of the invention

XX

XX Sequence 20 BP; 6 A; 7 C; 7 G; 0 T; 0 U; 0 Other;

XX

Query Match 0.6%; Score 16.8; DB 1; Length 20;

XX Best Local Similarity 90.0%; Pred. No. 1.1e+02;

XX Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

XX

QY 644 GCAGCAGCGCGCAGCAGCGGC 663

Db 1 GCAGCAGCAGCAGCAGCAGC 20

RESULT 89

AAF77533/c

ID AAF77533 standard; DNA; 20 BP.

XX

XX AAF77533;

AC

XX

XX 23-MAY-2001 (first entry)

DT

XX

XX CDNA library production method related oligonucleotide SEQ ID NO: 2.

DE

XX

XX cDNA library production; SCLA; gene chip technology;

KW differential screening; pathological diagnosis; genetic identification;

KW single-cell cDNA library amplification; ds.

XX

XX Synthetic.

OS

XX

XX US6197554-B1.

PN

XX

XX 06-MAR-2001.

PD

XX

XX 20-NOV-1998; 98US-00197951.

PF

XX

XX 20-NOV-1998; 98US-00197951.

PR

XX PA (LINS/) LIN S.  
 PA (CHOO/) CHUONG C.  
 XX PA (YING/) YING S.  
 XX PI Lin S, Chuong C, Ying S;  
 XX DR WPI; 2001-243448/25.  
 XX PT Generating a complete full-length cDNA library from single cells for use  
 PT in gene chip technology, involves reverse transcribing intracellular  
 PT mRNAs, adding polynucleotide tail and amplifying formed cDNAs.  
 XX PS Disclosure; Col 9-10; 11pp; English.  
 XX CC The present invention describes a method of producing full-length cDNA  
 CC libraries from single cells, designated single-cell cDNA library  
 CC amplification (SCLA). The method is useful in gene chip technology,  
 CC differential screening, pathological diagnosis, physiological prognosis  
 CC and genetic identification. No further information about this sequence is  
 CC given in the specification  
 XX SQ Sequence 20 BP; 0 A; 20 C; 0 G; 0 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 206 GGGGGGGTGGGTGGGGGGG 225  
 DB ||||||| ||||| |||||||  
 20 GGGGGGGGGGGGGGGGGGGG 1  
 RESULT 90  
 AAF98853  
 ID AAF98853 standard; DNA; 20 BP.  
 XX AC AAF98853;  
 XX DT 11-JUN-2001 (first entry)  
 XX DE Poly-G immunostimulatory nucleic acid SEQ ID NO: 134.  
 XX KW Immunostimulatory nucleic acid; ISNA; human; interferon alpha; IFN-alpha;  
 KW viral infection; phosphorothioate backbone; palindrome; cancer; ds.  
 XX OS Synthetic.  
 XX PN WO200122990-A2.  
 XX PD 05-APR-2001.  
 XX PF 27-SEP-2000; 2000WO-US026527.  
 XX PR 27-SEP-1999; 99US-0156147P.  
 XX PA (COLE-) COLEY PHARM GROUP INC.  
 XX PI (IOWA) UNIV IOWA RES FOUND.  
 XX DR Hartmann G, Bratzler RL, Krieg A;  
 WPI; 2001-290487/30.  
 PT Improving the efficacy of treatments involving the administration of  
 PT interferon-alpha by co-administering an isolated immunostimulatory  
 PT nucleic acid.  
 XX PS Disclosure; Page 24; 168pp; English.  
 XX CC The present invention describes an improvement to a method requiring the  
 CC administration of interferon alpha (IFN-alpha), involving administering  
 CC an immunostimulatory nucleic acid (ISNA). The sequences of a number of  
 CC such nucleic acids are also provided. These may comprise oligonucleotides

CC with phosphorothioate backbones, palindromes, or G-rich sequences. The  
 CC sequences of the invention are useful in the treatment of proliferative  
 CC diseases, such as cancers, and viral infections. The present sequence is  
 CC an example of an immunostimulatory oligonucleotide  
 XX SQ Sequence 20 BP; 0 A; 0 C; 20 G; 0 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 206 GGGGGGGTGGGTGGGGGGG 225  
 DB ||||||| ||||| |||||||  
 1 GGGGGGGGGGGGGGGGGGGG 20  
 RESULT 91  
 AAF99116  
 ID AAF99116 standard; DNA; 20 BP.  
 XX AC AAF99116;  
 XX DT 12-JUN-2001 (first entry)  
 XX DE Immunostimulatory nucleic acid #232.  
 XX KW Vaccine; cytostatic; virucidal; bactericidal; fungicidal; anti-parasitic;  
 KW immunostimulatory; tumour; viral infection; bacterial infection;  
 KW fungal infection; parasitic infection; cancer; asthma;  
 KW infectious disease; allergy; immune deficiency; phosphorothioate; ss.  
 XX OS Synthetic.  
 XX PN WO200122972-A2.  
 XX PD 05-APR-2001.  
 XX PF 25-SEP-2000; 2000WO-US026383.  
 XX PR 25-SEP-1999; 99US-0156113P.  
 XX PR 27-SEP-1999; 99US-0156135P.  
 XX PR 23-AUG-2000; 2000US-0227436P.  
 XX PA (IOWA) UNIV IOWA RES FOUND.  
 XX PI (COLE-) COLEY PHARM GMBH.  
 XX PI Krieg AM, Schetter C, Vollmer J;  
 XX DR WPI; 2001-273485/28.  
 XX PT Vaccinating against tumors, infectious diseases, allergies and asthma  
 PT using immunostimulatory Py-rich and TG nucleic acids.  
 XX PS Claim 101; Page 43; 338pp; English.  
 XX CC The present invention relates to a method for stimulating an immune  
 CC response. The method comprises administering an immunostimulatory nucleic  
 CC acid to a non-rodent subject in sufficient quantity to stimulate an  
 CC immune response. The present sequence is one such immunostimulatory  
 CC nucleic acid. The immunostimulatory nucleic acids can be pyrimidine rich  
 CC (py-rich) or thymidine (T) rich. The method is used to vaccinate subjects  
 CC against tumour antigens, viral antigens (e.g. herpesviridae, retroviridae  
 CC and/or orthomyxoviridae), bacterial antigens (e.g. toxoplasma,  
 CC haemophilus, campylobacter, clostridium, Escherichia coli and/or  
 CC staphylococcus), fungal antigens and/or parasitic antigens. The method is  
 CC also useful for preventing cancer, asthma, infectious disease, allergy or  
 CC immune deficiency. The present sequence can also be used to redirect a  
 CC Th2 to a Th1 immune response and to activate immune cells. Note: the  
 CC present sequence may have a phosphorothioate backbone  
 XX SQ Sequence 20 BP; 0 A; 6 C; 14 G; 0 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 16.8; DB 1; Length 20;

```
Best Local Similarity 90.0%; Pred. No. 1.1e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGCGCGG 671
    ||||| ||||| ||||| |||||
Db 1 GCGCGCGCGCGCGCGCGCGG 20

RESULT 92
AAF99130/c
ID AAF99130 standard; DNA; 20 BP.
XX
AC AAF99130;
XX
DT 12-JUN-2001 (first entry)
XX
DE Immunostimulatory nucleic acid #246.
XX
KW Vaccine; cytostatic; virucidal; bactericidal; fungicidal; anti-parasitic;
KW immunostimulatory; tumour; viral infection; bacterial infection;
KW fungal infection; parasitic infection; cancer; asthma;
KW infectious disease; allergy; immune deficiency; phosphorothioate; ss.
XX
OS Synthetic.
XX
PN WO200122972-A2.
XX
PD 05-APR-2001.
XX
PF 25-SEP-2000; 2000WO-US026383.
XX
PR 25-SEP-1999; 99US-0156113P.
PR 27-SEP-1999; 99US-0156135P.
PR 23-AUG-2000; 2000US-0227436P.
XX
PA (IOWA ) UNIV IOWA RES FOUND.
PA (COLE-) COLEY PHARM GMBH.
XX
PI Krieg AM, Schetter C, Vollmer J;
XX
DR WPI; 2001-273485/28.
XX
PT Vaccinating against tumors, infectious diseases, allergies and asthma
PT using immunostimulatory Py-rich and TG nucleic acids.
XX
PS Claim 101; Page 43; 338pp; English.
XX
CC The present invention relates to a method for stimulating an immune
CC response. The method comprises administering an immunostimulatory nucleic
CC acid to a non-rodent subject in sufficient quantity to stimulate an
CC immune response. The present sequence is one such immunostimulatory
CC nucleic acid. The immunostimulatory nucleic acids can be pyrimidine rich
CC (py-rich) or thymidine (T) rich. The method is used to vaccinate subjects
CC against tumour antigens, viral antigens (e.g. herpesviridae, retroviridae
CC and/or orthomyxoviridae), bacterial antigens (e.g. toxoplasma,
CC haemophilus, campylobacter, clostridium, Escherichia coli and/or
CC staphylococcus), fungal antigens and/or parasitic antigens. The method is
CC also useful for preventing cancer, asthma, infectious disease, allergy or
CC immune deficiency. The present sequence can also be used to redirect a
CC Th2 to a Th1 immune response and to activate immune cells. Note: the
CC present sequence may have a phosphorothioate backbone
XX
SQ Sequence 20 BP; 0 A; 20 C; 0 G; 0 T; 0 U; 0 Other;

Query Match 0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.1e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GCGGGGGTGGGTGGGGGGG 225
    ||||| ||||| ||||| |||||
Db 20 GCGGGGGGGGGGGGGGGGG 1

RESULT 94
AAF99402/c
ID AAF99402 standard; DNA; 20 BP.
XX
AC AAF99402;
XX
DT 12-JUN-2001 (first entry)
XX
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```
RESULT 93
AAF99401/c
ID AAF99401 standard; DNA; 20 BP.
XX
AC AAF99401;
XX
DT 12-JUN-2001 (first entry)
XX
DE Immunostimulatory nucleic acid #517.
XX
KW Vaccine; cytostatic; virucidal; bactericidal; fungicidal; anti-parasitic;
KW immunostimulatory; tumour; viral infection; bacterial infection;
KW fungal infection; parasitic infection; cancer; asthma;
KW infectious disease; allergy; immune deficiency; phosphorothioate; ss.
XX
OS Synthetic.
XX
PN WO200122972-A2.
XX
PD 05-APR-2001.
XX
PF 25-SEP-2000; 2000WO-US026383.
XX
PR 25-SEP-1999; 99US-0156113P.
PR 27-SEP-1999; 99US-0156135P.
PR 23-AUG-2000; 2000US-0227436P.
XX
PA (IOWA ) UNIV IOWA RES FOUND.
PA (COLE-) COLEY PHARM GMBH.
XX
PI Krieg AM, Schetter C, Vollmer J;
XX
DR WPI; 2001-273485/28.
XX
PT Vaccinating against tumors, infectious diseases, allergies and asthma
PT using immunostimulatory Py-rich and TG nucleic acids.
XX
PS Claim 101; Page 48; 338pp; English.
XX
CC The present invention relates to a method for stimulating an immune
CC response. The method comprises administering an immunostimulatory nucleic
CC acid to a non-rodent subject in sufficient quantity to stimulate an
CC immune response. The present sequence is one such immunostimulatory
CC nucleic acid. The immunostimulatory nucleic acids can be pyrimidine rich
CC (py-rich) or thymidine (T) rich. The method is used to vaccinate subjects
CC against tumour antigens, viral antigens (e.g. herpesviridae, retroviridae
CC and/or orthomyxoviridae), bacterial antigens (e.g. toxoplasma,
CC haemophilus, campylobacter, clostridium, Escherichia coli and/or
CC staphylococcus), fungal antigens and/or parasitic antigens. The method is
CC also useful for preventing cancer, asthma, infectious disease, allergy or
CC immune deficiency. The present sequence can also be used to redirect a
CC Th2 to a Th1 immune response and to activate immune cells. Note: the
CC present sequence may have a phosphorothioate backbone
XX
SQ Sequence 20 BP; 0 A; 20 C; 0 G; 0 T; 0 U; 0 Other;

Query Match 0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.1e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GCGGGGGTGGGTGGGGGGG 225
    ||||| ||||| ||||| |||||
Db 20 GCGGGGGGGGGGGGGGGGG 1

RESULT 94
AAF99402/c
ID AAF99402 standard; DNA; 20 BP.
XX
AC AAF99402;
XX
DT 12-JUN-2001 (first entry)
XX
```

```

DE Immunostimulatory nucleic acid #518.
XX Vaccine; cytostatic; virucidal; bactericidal; fungicidal; anti-parasitic;
KW immunostimulatory; tumour; viral infection; bacterial infection;
KW fungal infection; parasitic infection; cancer; asthma;
KW infectious disease; allergy; immune deficiency; phosphorothioate; ss.
XX Synthetic.
XX WO200122972-A2.
XX 05-APR-2001.
XX 25-SEP-2000; 2000WO-US026383.
XX 25-SEP-1999; 99US-0156113P.
XX 27-SEP-1999; 99US-0156135P.
XX 23-AUG-2000; 2000US-0227436P.
XX (IOWA ) UNIV IOWA RES FOUND.
PA (COLE-) COLEY PHARM GMBH.
XX Krieg AM, Schetter C, Vollmer J;
XX WPI; 2001-273485/28.
XX Vaccinating against tumors, infectious diseases, allergies and asthma
PT using immunostimulatory Py-rich and TG nucleic acids.
XX Claim 101; Page 48; 338pp; English.
XX The present invention relates to a method for stimulating an immune
CC response. The method comprises administering an immunostimulatory nucleic
CC acid to a non-rodent subject in sufficient quantity to stimulate an
CC immune response. The present sequence is one such immunostimulatory
CC nucleic acid. The immunostimulatory nucleic acids can be pyrimidine rich
CC (py-rich) or thymidine (T) rich. The method is used to vaccinate subjects
CC against tumour antigens, viral antigens (e.g. herpesviridae, retroviridae
CC and/or orthomyxoviridae), bacterial antigens (e.g. toxoplasma,
CC haemophilus, campylobacter, clostridium, Escherichia coli and/or
CC staphylococcus), fungal antigens and/or parasitic antigens. The method is
CC also useful for preventing cancer, asthma, infectious disease, allergy or
CC immune deficiency. The present sequence can also be used to redirect a
CC Th2 to a Th1 immune response and to activate immune cells. Note: the
CC present sequence may have a phosphorothioate backbone
XX Sequence 20 BP; 0 A; 0 C; 20 G; 0 T; 0 U; 0 Other;
SQ
Query Match 0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.1e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 206 GGGGGGGTGGGTGGGGGGG 225
Db 1 GGGGGGGGGGGGGGGGGGG 20
RESULT 95
AAF99608/c
ID AAF99608 standard; DNA; 20 BP.
XX AAF99608;
XX 12-JUN-2001 (first entry)
XX Immunostimulatory nucleic acid #724.
XX Vaccine; cytostatic; virucidal; bactericidal; fungicidal; anti-parasitic;
KW immunostimulatory; tumour; viral infection; bacterial infection;
KW fungal infection; parasitic infection; cancer; asthma;
KW infectious disease; allergy; immune deficiency; phosphorothioate; ss.
XX Synthetic.

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XX WO200122972-A2.
XX 05-APR-2001.
XX 25-SEP-2000; 2000WO-US026383.
XX 25-SEP-1999; 99US-0156113P.
XX 27-SEP-1999; 99US-0156135P.
XX 23-AUG-2000; 2000US-0227436P.
XX (IOWA ) UNIV IOWA RES FOUND.
PA (COLE-) COLEY PHARM GMBH.
XX Krieg AM, Schetter C, Vollmer J;
XX WPI; 2001-273485/28.
XX Vaccinating against tumors, infectious diseases, allergies and asthma
PT using immunostimulatory Py-rich and TG nucleic acids.
XX Claim 101; Page 54; 338pp; English.
XX The present invention relates to a method for stimulating an immune
CC response. The method comprises administering an immunostimulatory nucleic
CC acid to a non-rodent subject in sufficient quantity to stimulate an
CC immune response. The present sequence is one such immunostimulatory
CC nucleic acid. The immunostimulatory nucleic acids can be pyrimidine rich
CC (py-rich) or thymidine (T) rich. The method is used to vaccinate subjects
CC against tumour antigens, viral antigens (e.g. herpesviridae, retroviridae
CC and/or orthomyxoviridae), bacterial antigens (e.g. toxoplasma,
CC haemophilus, campylobacter, clostridium, Escherichia coli and/or
CC staphylococcus), fungal antigens and/or parasitic antigens. The method is
CC also useful for preventing cancer, asthma, infectious disease, allergy or
CC immune deficiency. The present sequence can also be used to redirect a
CC Th2 to a Th1 immune response and to activate immune cells. Note: the
CC present sequence may have a phosphorothioate backbone
XX Sequence 20 BP; 0 A; 20 C; 0 G; 0 T; 0 U; 0 Other;
SQ
Query Match 0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.1e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 206 GGGGGGGTGGGTGGGGGGG 225
Db 20 GGGGGGGGGGGGGGGGGGG 1
RESULT 96
AAF99782
ID AAF99782 standard; DNA; 20 BP.
XX AAF99782;
XX 12-JUN-2001 (first entry)
XX Immunostimulatory nucleic acid #898.
XX Vaccine; cytostatic; virucidal; bactericidal; fungicidal; anti-parasitic;
KW immunostimulatory; tumour; viral infection; bacterial infection;
KW fungal infection; parasitic infection; cancer; asthma;
KW infectious disease; allergy; immune deficiency; phosphorothioate; ss.
XX Synthetic.
XX WO200122972-A2.
XX 05-APR-2001.
XX 25-SEP-2000; 2000WO-US026383.
XX 25-SEP-1999; 99US-0156113P.

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RESULT 99
AAV47686
ID AAV47686 standard; DNA; 20 BP.
XX
AC AAV47686;
XX
DT 20-NOV-1998 (first entry)
XX
DE Unmethylated CpG dinucleotide 2001.
XX
KW Unmethylated CpG dinucleotide; immune response; bacterial meningitis;
KW natural killer cell activation; NK cell; Th2 response; neonatal sepsis;
KW pulmonary disorder; asthma; environmentally induced airway disease;
KW bacterial infection; endotoxaemia; therapy; cystic fibrosis;
KW inflammatory bowel disease; ss.
XX
OS Synthetic.
XX
PN WO9837919-A1.
XX
PD 03-SEP-1998.
XX
PF 25-FEB-1998; 98WO-US003678.
XX
PR 28-FEB-1997; 97US-0039405P.
XX
PA (IOWA ) UNIV IOWA RES FOUND.
XX
PI Schwartz DA, Krieg AM;
XX
WPI; 1998-480941/41.
XX
Use of nucleic acids containing an unmethylated CpG - for treating a
PT subject having or at risk of having an acute decrement in air flow or
PT inhibiting an inflammatory response.
XX
PS Claim 35; Page 27; 65pp; English.
XX
This sequence represents an unmethylated CpG dinucleotide, and can be
CC used in the method of the invention. The method is for treating a subject
CC having or at risk of having an acute decrement in air flow, comprising
CC administering a nucleic acid sequence containing at least one
CC unmethylated CpG. The nucleic acids containing an unmethylated CpG
CC dinucleotide affect an immune response in a subject by activating natural
CC killer cells (NK) or redirecting a subject's immune response from a Th2
CC to a Th1 response by inducing monocytic and other cells to produce Th1
CC cytokines. They can be used to treat pulmonary disorders having an
CC immunologic component, such as asthma or environmentally induced airway
CC disease. They can also be used to treat diseases associated with Gram-
CC positive bacterial infections or endotoxaemia including bacterial
CC meningitis, neonatal sepsis, cystic fibrosis, inflammatory bowel disease
CC and liver cirrhosis, Gram-negative pneumonia, Gram-negative abdominal
CC abscess, haemorrhagic shock, disseminated intravascular coagulation, or
CC an inflammatory response to lipopolysaccharide
XX
SQ Sequence 20 BP; 0 A; 6 C; 14 G; 0 T; 0 U; 0 Other;
Query Match 0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.1e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Oy 652 GGCAGCAGCGCGCGCGCGG 671
Db 1 GCGCGCGCGCGCGCGCGG 20
RESULT 100
AAV74241/C
ID AAV74241 standard; DNA; 20 BP.
XX
AC AAV74241;
XX

```

```

DT 20-MAR-2003 (revised)
DT 15-MAR-1999 (first entry)
XX
DE CpG-N motif S-ODN 2017 DNA.
XX
KW CpG-N motif; immunostimulation; antigen; CpG-S motif; immunisation; ODN;
KW viral antigen; bacterial antigen; parasite; therapeutic; growth factor;
KW toxin; tumour suppressor; cytokine; apoptotic protein; interferon;
KW hormone; clotting factor; ligand; receptor; oligodeoxynucleotide; ss.
XX
OS Synthetic.
XX
PN WO9852581-A1.
XX
PD 26-NOV-1998.
XX
PF 20-MAY-1998; 98WO-US010408.
XX
PR 20-MAY-1997; 97US-0047209P.
PR 20-MAY-1997; 97US-0047233P.
XX
PA (OTTA-) OTTAWA CIVIC HOSPITAL LOEB RES INST.
PA (IOWA ) UNIV IOWA RES FOUND.
PA (QIAG-) QIAGEN GMBH.
XX
PI Davis HL, Krieg AM, Schorr J, Wu T;
XX
WPI; 1999-059712/05.
XX
Use of neutralising CpG and stimulating CpG motifs in DNA vectors - for
PT enhancing the immunostimulatory effect of an antigen or enhancing the
PT expression of a therapeutic polypeptide.
XX
PS Example 1; Page 64; 109pp; English.
XX
AAV74337-V74253 are oligodeoxynucleotide (ODN) primers used to describe a
CC method for enhancing the immunostimulatory effect of an antigen encoded
CC by nucleic acid contained in a nucleic acid construct. The method
CC involves determining the CpG-N and CpG-S motifs present in the construct,
CC removing neutralising CpG (CpG-N) motifs and optionally inserting a
CC stimulatory CpG (CpG-S) motifs in the construct, thereby producing a
CC nucleic acid construct having enhanced immunostimulatory efficacy. The
CC method can be used for immunisation against viral antigens, e.g. from
CC hepatitis B virus (HBV), bacterial antigens or an antigen derived from a
CC parasite. They can also be used for expression of a therapeutic
CC polypeptide, e.g. growth factors, toxins, tumour suppressors, cytokines,
CC apoptotic proteins, interferons, hormones, clotting factors, ligands and
CC receptors. (Updated on 20-MAR-2003 to correct PA field.)
XX
SQ Sequence 20 BP; 0 A; 20 C; 0 G; 0 T; 0 U; 0 Other;
Query Match 0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.1e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Oy 206 GGGGGGGTGGGGTGGGGGGG 225
Db 20 GGGGGGGGGGGGGGGGGG 1
RESULT 101
AAV74243
ID AAV74243 standard; DNA; 20 BP.
XX
AC AAV74243;
XX
DT 20-MAR-2003 (revised)
DT 15-MAR-1999 (first entry)
XX
DE CpG-N motif O-ODN 2001 DNA...
XX
KW CpG-N motif; immunostimulation; antigen; CpG-S motif; immunisation; ODN;
KW viral antigen; bacterial antigen; parasite; therapeutic; growth factor;

```

KW toxin; tumour suppressor; cytokine; apoptotic protein; interferon;  
KW hormone; clotting factor; ligand; receptor; oligodeoxynucleotide; ss.  
OS Synthetic.  
XX  
PN WO9852581-A1.  
XX  
PD 26-NOV-1998.  
XX  
PF 20-MAY-1998; 98WO-US010408.  
XX  
PR 20-MAY-1997; 97US-0047209P.  
PR 20-MAY-1997; 97US-0047233P.  
XX  
PA (OTTA-) OTTAWA CIVIC HOSPITAL LOEB RES INST.  
PA (IOWA ) UNIV IOWA RES FOUND.  
PA (QIAG-) QIAGEN GMBH.  
XX  
PI Davis HL, Krieg AM, Schorr J, Wu T;  
XX WPI; 1999-059712/05.  
DR  
XX Use of neutralising CpG and stimulating CpG motifs in DNA vectors - for  
PT enhancing the immunostimulatory effect of an antigen or enhancing the  
PT expression of a therapeutic polypeptide.  
XX  
XX Example 1; Page 64; 109pp; English.  
XX  
CC AAV74237-V74253 are oligodeoxynucleotide (ODN) primers used to describe a  
CC method for enhancing the immunostimulatory effect of an antigen encoded  
CC by nucleic acid contained in a nucleic acid construct. The method  
CC involves determining the CpG-N and CpG-S motifs present in the construct,  
CC removing neutralising CpG (CpG-N) motifs and optionally inserting  
CC stimulatory CpG (CpG-S) motifs in the construct, thereby producing a  
CC nucleic acid construct having enhanced immunostimulatory efficacy. The  
CC method can be used for immunisation against viral antigens, e.g. from  
CC hepatitis B virus (HBV), bacterial antigens or an antigen derived from a  
CC parasite. They can also be used for expression of a therapeutic  
CC polypeptide, e.g. growth factors, toxins, tumour suppressors, cytokines,  
CC apoptotic proteins, interferons, hormones, clotting factors, ligands and  
CC receptors. (Updated on 20-MAR-2003 to correct PA field.)  
XX  
SQ Sequence 20 BP; 0 A; 6 C; 14 G; 0 T; 0 U; 0 Other;  
  
Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 652 GGCAGCGCGCGCGCGCGG 671  
DB 1 GCGCGCGCGCGCGCGCGG 20  
  
RESULT 102  
ABL38791/C  
ID ABL38791 standard; DNA; 20 BP.  
XX  
AC ABL38791;  
XX  
DT 16-APR-2002 (first entry)  
XX  
DE Immunostimulatory nucleic acid SEQ ID NO: 168.  
XX  
KW Antibody-induced cell lysis; cancer; immunostimulatory; CD20;  
KW angiogenesis; metastasis; cytostatic; phosphorothioate backbone; ss.  
XX  
OS Synthetic.  
XX  
FH Key Location/Qualifiers  
FT modified\_base 1..20  
FT /\*tag= a  
FT /mod\_base= OTHER  
FT /note= "phosphorothioate backbone"

XX WO200197843-A2.  
PN  
XX 27-DEC-2001.  
XX  
XX 22-JUN-2001; 2001WO-US020154.  
PF  
XX 22-JUN-2000; 2000US-0213346P.  
PR  
XX (IOWA ) UNIV IOWA RES FOUND.  
PA  
XX Weiner G, Hartmann G;  
XX WPI; 2002-154611/20.  
DR  
XX Treating or preventing cancer, such as basal cell carcinoma, comprises  
PT administering immunostimulatory nucleic acids that induce expression of  
PT cell surface antigens and antibodies to a subject having or at risk of  
PT developing cancer.  
XX  
XX Disclosure; Page 138; 312pp; English.  
XX  
CC The present invention relates to methods for treating or preventing  
CC cancer, involving administering to a subject having or at risk of  
CC developing cancer immunostimulatory nucleic acids that induce expression  
CC of cell surface antigens and antibodies. The methods are useful for  
CC treating or preventing cancer such as basal cell carcinoma, bladder  
CC cancer, bone cancer, brain and central nervous system (CNS) cancer,  
CC breast cancer, cervical cancer, colon and rectum cancer, connective  
CC tissue cancer, oesophageal cancer, eye cancer, kidney cancer, larynx  
CC cancer, leukaemia, liver cancer, lung cancer, Hodgkin's lymphoma, non-  
CC Hodgkin's lymphoma, melanoma, myeloma, oral cavity cancer, ovarian  
CC cancer, pancreatic cancer, prostate cancer, rhabdomyosarcoma, skin  
CC cancer, stomach cancer, testicular cancer, and uterine cancer. The  
CC present sequence is an immunostimulatory oligonucleotide described in the  
CC exemplification of the invention  
XX  
SQ Sequence 20 BP; 0 A; 20 C; 0 G; 0 T; 0 U; 0 Other;  
  
Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 206 GGGGGGGTGGGGTGGGGGGG 225  
DB 20 GGGGGGGGGGGGGGGGGGG 1  
  
RESULT 103  
ABL38792/C  
ID ABL38792 standard; DNA; 20 BP.  
XX  
AC ABL38792;  
XX  
DT 16-APR-2002 (first entry)  
XX  
DE Immunostimulatory nucleic acid SEQ ID NO: 169.  
XX  
KW Antibody-induced cell lysis; cancer; immunostimulatory; CD20;  
KW angiogenesis; metastasis; cytostatic; ss.  
XX  
OS Synthetic.  
XX  
PN WO200197843-A2.  
XX  
XX 27-DEC-2001.  
XX  
XX 22-JUN-2001; 2001WO-US020154.  
PF  
XX 22-JUN-2000; 2000US-0213346P.  
PR  
XX (IOWA ) UNIV IOWA RES FOUND.  
PA  
XX

```
PI Weiner G, Hartmann G;
XX WPI; 2002-154611/20.
XX Treating or preventing cancer, such as basal cell carcinoma, comprises
PT administering immunostimulatory nucleic acids that induce expression of
PT cell surface antigens and antibodies to a subject having or at risk of
PT developing cancer.
XX Disclosure; Page 139; 312pp; English.
XX The present invention relates to methods for treating or preventing
CC cancer, involving administering to a subject having or at risk of
CC developing cancer immunostimulatory nucleic acids that induce expression
CC of cell surface antigens and antibodies. The methods are useful for
CC treating or preventing cancer such as basal cell carcinoma, bladder
CC cancer, bone cancer, brain and central nervous system (CNS) cancer,
CC breast cancer, cervical cancer, colon and rectum cancer, connective
CC tissue cancer, esophageal cancer, eye cancer, kidney cancer, larynx
CC cancer, leukaemia, melanoma, myeloma, oral cavity cancer, ovarian
CC cancer, pancreatic cancer, prostate cancer, rhabdomyosarcoma, skin
CC cancer, stomach cancer, testicular cancer, and uterine cancer. The
CC present sequence is an immunostimulatory oligonucleotide described in the
CC exemplification of the invention
XX
SQ Sequence 20 BP; 0 A; 20 C; 0 G; 0 T; 0 U; 0 Other;
Query Match 0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.1e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 206 GGGGGGGTGGGGTGGGGGGG 225
Db 20 GGGGGGGGGGGGGGGGGGGG 1
RESULT 104
ABL39008
ID ABL39008 standard; DNA; 20 BP.
XX
XX ABL39008;
AC
XX
XX 16-APR-2002 (first entry)
XX Immunostimulatory nucleic acid SEQ ID NO: 410.
XX
XX Antibody-induced cell lysis; cancer; immunostimulatory; CD20;
KW angiogenesis; metastasis; cytostatic; ss.
XX
XX Synthetic.
OS
XX WO200197843-A2.
PN
XX 27-DEC-2001.
PD
XX 22-JUN-2001; 2001WO-US020154.
PF
XX 22-JUN-2000; 2000US-0213346P.
PR
XX (IOWA ) UNIV IOWA RES FOUND.
PA
XX Weiner G, Hartmann G;
PI
XX WPI; 2002-154611/20.
XX Treating or preventing cancer, such as basal cell carcinoma, comprises
PT administering immunostimulatory nucleic acids that induce expression of
PT cell surface antigens and antibodies to a subject having or at risk of
PT developing cancer.
XX Disclosure; Page 199; 312pp; English.
XX
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CC The present invention relates to methods for treating or preventing
CC cancer, involving administering to a subject having or at risk of
CC developing cancer immunostimulatory nucleic acids that induce expression
CC of cell surface antigens and antibodies. The methods are useful for
CC treating or preventing cancer such as basal cell carcinoma, bladder
CC cancer, bone cancer, brain and central nervous system (CNS) cancer,
CC breast cancer, cervical cancer, colon and rectum cancer, connective
CC tissue cancer, esophageal cancer, eye cancer, kidney cancer, larynx
CC cancer, leukaemia, melanoma, myeloma, oral cavity cancer, ovarian
CC cancer, pancreatic cancer, prostate cancer, rhabdomyosarcoma, skin
CC cancer, stomach cancer, testicular cancer, and uterine cancer. The
CC present sequence is an immunostimulatory oligonucleotide described in the
CC exemplification of the invention
XX
SQ Sequence 20 BP; 0 A; 6 C; 14 G; 0 T; 0 U; 0 Other;
Query Match 0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.1e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 652 GGCAGCAGCGGGCGGGCGG 671
Db 1 GCGCGCGGGCGGGCGGGCGG 20
RESULT 105
ABL39025
ID ABL39025 standard; DNA; 20 BP.
XX
XX ABL39025;
AC
XX
XX 16-APR-2002 (first entry)
XX Immunostimulatory nucleic acid SEQ ID NO: 429.
XX
XX Antibody-induced cell lysis; cancer; immunostimulatory; CD20;
KW angiogenesis; metastasis; cytostatic; ss.
XX
XX Synthetic.
OS
XX WO200197843-A2.
PN
XX 27-DEC-2001.
PD
XX 22-JUN-2001; 2001WO-US020154.
PF
XX 22-JUN-2000; 2000US-0213346P.
PR
XX (IOWA ) UNIV IOWA RES FOUND.
PA
XX Weiner G, Hartmann G;
PI
XX WPI; 2002-154611/20.
XX Treating or preventing cancer, such as basal cell carcinoma, comprises
PT administering immunostimulatory nucleic acids that induce expression of
PT cell surface antigens and antibodies to a subject having or at risk of
PT developing cancer.
XX Disclosure; Page 204; 312pp; English.
XX The present invention relates to methods for treating or preventing
CC cancer, involving administering to a subject having or at risk of
CC developing cancer immunostimulatory nucleic acids that induce expression
CC of cell surface antigens and antibodies. The methods are useful for
CC treating or preventing cancer such as basal cell carcinoma, bladder
CC cancer, bone cancer, brain and central nervous system (CNS) cancer,
CC breast cancer, cervical cancer, colon and rectum cancer, connective
CC tissue cancer, esophageal cancer, eye cancer, kidney cancer, larynx
CC cancer, leukaemia, melanoma, myeloma, oral cavity cancer, ovarian
CC cancer, pancreatic cancer, prostate cancer, rhabdomyosarcoma, skin
CC cancer, stomach cancer, testicular cancer, and uterine cancer. The
CC present sequence is an immunostimulatory oligonucleotide described in the
CC exemplification of the invention
XX
```

CC cancer, stomach cancer, testicular cancer, and uterine cancer. The  
CC present sequence is an immunostimulatory oligonucleotide described in the  
CC exemplification of the invention

XX  
SQ Sequence 20 BP; 0 A; 0 C; 20 G; 0 T; 0 U; 0 Other;  
Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGTGGGGGG 225  
||||| ||||| ||||| |||||  
Db 1 GGGGGGGGGGGGGGGGGG 20

RESULT 106  
ABL39026  
ID ABL39026 standard; DNA; 20 BP.  
XX  
AC ABL39026;  
XX  
DT 16-APR-2002 (first entry)  
XX  
DE Immunostimulatory nucleic acid SEQ ID NO: 430.  
KW Antibody-induced cell lysis; cancer; immunostimulatory; CD20;  
KW angiogenesis; metastasis; cytostatic; ss.  
XX  
OS Synthetic.  
XX  
PN WO200197843-A2.  
XX  
PD 27-DEC-2001.  
XX  
PF 22-JUN-2001; 2001WO-US020154.  
XX  
PR 22-JUN-2000; 2000US-0213346P.  
XX  
PA (IOWA ) UNIV IOWA RES FOUND.  
XX  
PI Weiner G, Hartmann G;  
XX  
WPI; 2002-154611/20.  
XX  
DR  
XX  
PT Treating or preventing cancer, such as basal cell carcinoma, comprises  
PT administering immunostimulatory nucleic acids that induce expression of  
PT cell surface antigens and antibodies to a subject having or at risk of  
PT developing cancer.  
XX  
PS Disclosure; Page 204; 312pp; English.  
XX  
CC The present invention relates to methods for treating or preventing  
CC cancer, involving administering to a subject having or at risk of  
CC developing cancer immunostimulatory nucleic acids that induce expression  
CC of cell surface antigens and antibodies. The methods are useful for  
CC treating or preventing cancer such as basal cell carcinoma, bladder  
CC cancer, bone cancer, brain and central nervous system (CNS) cancer,  
CC breast cancer, cervical cancer, colon and rectum cancer, connective  
CC tissue cancer, oesophageal cancer, eye cancer, kidney cancer, larynx  
CC cancer, leukaemia, liver cancer, lung cancer, Hodgkin's lymphoma, non-  
CC Hodgkin's lymphoma, melanoma, myeloma, oral cavity cancer, ovarian  
CC cancer, pancreatic cancer, prostate cancer, rhabdomyosarcoma, skin  
CC cancer, stomach cancer, testicular cancer, and uterine cancer. The  
CC present sequence is an immunostimulatory oligonucleotide described in the  
CC exemplification of the invention

XX  
SQ Sequence 20 BP; 0 A; 0 C; 20 G; 0 T; 0 U; 0 Other;  
Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGTGGGGGG 225

Db 1 GGGGGGGGGGGGGGGGGG 20  
||||| ||||| ||||| ||||| |||||

RESULT 107  
ABS77759  
ID ABS77759 standard; DNA; 20 BP.  
XX  
AC ABS77759;  
XX  
DT 13-DEC-2002 (first entry)  
XX  
DE Angiogenesis inhibitory oligonucleotide #243.  
XX  
KW Angiogenesis inhibitor; ss; angiogenesis; solid tumour growth;  
KW tumour metastasis; precancerous lesion; rheumatoid arthritis; psoriasis;  
KW diabetic retinopathy; retinopathy of prematurity; macular degeneration;  
KW corneal graft rejection; neovascular glaucoma; retrolental fibroplasia;  
KW rubecsis; Osler-Webber Syndrome; myocardial angiogenesis;  
KW plaque neovascularisation; telangiectasia; haemophilic joint;  
KW angiofibroma; wound granulation; intestinal adhesion; atherosclerosis;  
KW scleroderma; hypertrophic scar.  
XX  
OS Synthetic.  
XX  
PN WO200253141-A2.  
XX  
PD 11-JUL-2002.  
XX  
PF 14-DEC-2001; 2001WO-US048458.  
XX  
PR 14-DEC-2000; 2000US-0255534P.  
XX  
PA (COLE-) COLEY PHARM GROUP INC.  
XX  
PI Bratzler RL;  
XX  
WPI; 2002-566690/60.  
XX  
PT Inhibiting angiogenesis in a subject, involves administering at least one  
PT antiangiogenic nucleic acid molecule to the subject.  
XX  
PS Claim 2; Page 23; 276pp; English.  
XX  
CC The invention relates to inhibiting angiogenesis in a subject, comprising  
CC administering at least one antiangiogenic nucleic acid molecule. Also  
CC included is a kit comprising a first container housing the antiangiogenic  
CC nucleic acids, and instructions for administering them to a subject  
CC having a condition characterised by unwanted angiogenesis. The method is  
CC useful for inhibiting angiogenesis associated with solid tumour growth,  
CC tumour metastasis, precancerous lesion, rheumatoid arthritis, psoriasis,  
CC diabetic retinopathy, retinopathy of prematurity, macular degeneration,  
CC corneal graft rejection, neovascular glaucoma, retrolental fibroplasia,  
CC rubecsis, Osler-Webber Syndrome, myocardial angiogenesis, plaque  
CC neovascularisation, telangiectasia, haemophilic joints, angiofibroma,  
CC wound granulation, intestinal adhesions, atherosclerosis, scleroderma and  
CC hypertrophic scars. The present sequence is an antiangiogenic nucleic  
CC acid of the invention

XX  
SQ Sequence 20 BP; 0 A; 6 C; 14 G; 0 T; 0 U; 0 Other;  
Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGGGCGG 671  
||||| ||||| ||||| ||||| |||||  
Db 1 GGGGGGGGGGGGGGGGGG 20

RESULT 108  
ABS77773/c  
ID ABS77773 standard; DNA; 20 BP.

XX AC ABS77773;  
 XX KW tumour metastasis; precancerous lesion; rheumatoid arthritis; psoriasis;  
 DT 13-DEC-2002 (first entry)  
 XX KW corneal graft rejection; retinopathy of prematurity; macular degeneration;  
 DE Angiogenesis inhibitory oligonucleotide #257.  
 XX KW Angiogenesis inhibitor; ss; angiogenesis; solid tumour growth;  
 KW tumour metastasis; precancerous lesion; rheumatoid arthritis; psoriasis;  
 KW diabetic retinopathy; retinopathy of prematurity; macular degeneration;  
 KW corneal graft rejection; neovascular glaucoma; retrolental fibroplasia;  
 KW rubeosis; Osler-Webber Syndrome; myocardial angiogenesis;  
 KW plaque neovascularisation; telangiectasia; haemophilic joint;  
 KW angiofibroma; wound granulation; intestinal adhesion; atherosclerosis;  
 KW scleroderma; hypertrophic scar.  
 XX OS Synthetic.  
 XX WO200253141-A2.  
 PN 11-JUL-2002.  
 PD 14-DEC-2001; 2001WO-US048458.  
 PF 14-DEC-2000; 2000US-0255534P.  
 PR (COLE-) COLEY PHARM GROUP INC.  
 XX PA Bratzler RL;  
 PI WPI; 2002-566690/60.  
 XX DR Inhibiting angiogenesis in a subject, involves administering at least one  
 XX PT antiangiogenic nucleic acid molecule to the subject.  
 PT Claim 2; Page 24; 276pp; English.  
 PS The invention relates to inhibiting angiogenesis in a subject, comprising  
 XX administering at least one antiangiogenic nucleic acid molecule. Also  
 CC included is a kit comprising a first container housing the antiangiogenic  
 CC nucleic acids, and instructions for administering them to a subject  
 CC having a condition characterised by unwanted angiogenesis. The method is  
 CC useful for inhibiting angiogenesis associated with solid tumour growth,  
 CC tumour metastasis, precancerous lesion, rheumatoid arthritis, psoriasis,  
 CC diabetic retinopathy, retinopathy of prematurity, macular degeneration,  
 CC corneal graft rejection, neovascular glaucoma, retrolental fibroplasia,  
 CC rubeosis, Osler-Webber Syndrome, myocardial angiogenesis, plaque  
 CC neovascularisation, telangiectasia, haemophilic joints, angiofibroma,  
 CC wound granulation, intestinal adhesions, atherosclerosis, scleroderma and  
 CC hypertrophic scars. The present sequence is an antiangiogenic nucleic  
 CC acid of the invention  
 XX Sequence 20 BP; 0 A; 20 C; 0 G; 0 T; 0 U; 0 Other;  
 SQ Query Match 0.6%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 206 GGGGGGGTGGGGTGGGGGGG 225  
 DB 20 GGGGGGGGGGGGGGGGGGGG 1  
 RESULT 109  
 ABS78046/c  
 ID ABS78046 standard; DNA; 20 BP.  
 XX AC ABS78046;  
 XX KW tumour metastasis; precancerous lesion; rheumatoid arthritis; psoriasis;  
 XX KW diabetic retinopathy; retinopathy of prematurity; macular degeneration;  
 XX KW corneal graft rejection; neovascular glaucoma; retrolental fibroplasia;  
 XX KW rubeosis; Osler-Webber Syndrome; myocardial angiogenesis;  
 XX KW plaque neovascularisation; telangiectasia; haemophilic joint;  
 XX KW angiofibroma; wound granulation; intestinal adhesion; atherosclerosis;  
 XX KW scleroderma; hypertrophic scar.

KW Angiogenesis inhibitor; ss; angiogenesis; solid tumour growth;  
 KW tumour metastasis; precancerous lesion; rheumatoid arthritis; psoriasis;  
 KW diabetic retinopathy; retinopathy of prematurity; macular degeneration;  
 KW corneal graft rejection; neovascular glaucoma; retrolental fibroplasia;  
 KW rubeosis; Osler-Webber Syndrome; myocardial angiogenesis;  
 KW plaque neovascularisation; telangiectasia; haemophilic joint;  
 KW angiofibroma; wound granulation; intestinal adhesion; atherosclerosis;  
 KW scleroderma; hypertrophic scar.  
 XX OS Synthetic.  
 XX WO200253141-A2.  
 PN 11-JUL-2002.  
 PD 14-DEC-2001; 2001WO-US048458.  
 PF 14-DEC-2000; 2000US-0255534P.  
 PR (COLE-) COLEY PHARM GROUP INC.  
 XX PA Bratzler RL;  
 PI WPI; 2002-566690/60.  
 XX DR Inhibiting angiogenesis in a subject, involves administering at least one  
 XX PT antiangiogenic nucleic acid molecule to the subject.  
 PT Claim 2; Page 29; 276pp; English.  
 PS The invention relates to inhibiting angiogenesis in a subject, comprising  
 XX administering at least one antiangiogenic nucleic acid molecule. Also  
 CC included is a kit comprising a first container housing the antiangiogenic  
 CC nucleic acids, and instructions for administering them to a subject  
 CC having a condition characterised by unwanted angiogenesis. The method is  
 CC useful for inhibiting angiogenesis associated with solid tumour growth,  
 CC tumour metastasis, precancerous lesion, rheumatoid arthritis, psoriasis,  
 CC diabetic retinopathy, retinopathy of prematurity, macular degeneration,  
 CC corneal graft rejection, neovascular glaucoma, retrolental fibroplasia,  
 CC rubeosis, Osler-Webber Syndrome, myocardial angiogenesis, plaque  
 CC neovascularisation, telangiectasia, haemophilic joints, angiofibroma,  
 CC wound granulation, intestinal adhesions, atherosclerosis, scleroderma and  
 CC hypertrophic scars. The present sequence is an antiangiogenic nucleic  
 CC acid of the invention  
 XX Sequence 20 BP; 0 A; 20 C; 0 G; 0 T; 0 U; 0 Other;  
 SQ Query Match 0.6%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 206 GGGGGGGTGGGGTGGGGGGG 225  
 DB 20 GGGGGGGGGGGGGGGGGGGG 1  
 RESULT 110  
 ABS78047  
 ID ABS78047 standard; DNA; 20 BP.  
 XX AC ABS78047;  
 XX KW tumour metastasis; precancerous lesion; rheumatoid arthritis; psoriasis;  
 XX KW diabetic retinopathy; retinopathy of prematurity; macular degeneration;  
 XX KW corneal graft rejection; neovascular glaucoma; retrolental fibroplasia;  
 XX KW rubeosis; Osler-Webber Syndrome; myocardial angiogenesis;  
 XX KW plaque neovascularisation; telangiectasia; haemophilic joint;  
 XX KW angiofibroma; wound granulation; intestinal adhesion; atherosclerosis;  
 XX KW scleroderma; hypertrophic scar.

```

KW scleroderma; hypertrophic scar.
XX
XX Synthetic.
OS
PN WO200253141-A2.
XX
PD 11-JUL-2002.
XX
XX
XX 14-DEC-2001; 2001WO-US048458.
XX
XX 14-DEC-2000; 2000US-0255534P.
XX
XX (COLE-) COLEY PHARM GROUP INC.
XX
XX Bratzler RL;
PI
XX
XX WPI; 2002-566690/60.
DR
XX
XX Inhibiting angiogenesis in a subject, involves administering at least one
XX antiangiogenic nucleic acid molecule to the subject.
XX
XX Claim 2; Page 29; 276pp; English.
XX
XX The invention relates to inhibiting angiogenesis in a subject, comprising
XX administering at least one antiangiogenic nucleic acid molecule. Also
XX included is a kit comprising a first container housing the antiangiogenic
XX nucleic acids, and instructions for administering them to a subject
XX having a condition characterised by unwanted angiogenesis. The method is
XX useful for inhibiting angiogenesis associated with solid tumour growth,
XX tumour metastasis, precancerous lesion, rheumatoid arthritis, psoriasis,
XX diabetic retinopathy, retinopathy of prematurity, macular degeneration,
XX corneal graft rejection, neovascular glaucoma, retrolental fibroplasia,
XX rubeosis, Osler-Webber Syndrome, myocardial angiogenesis, plaque
XX neovascularisation, telangiectasia, haemophilic joints, angiofibroma,
XX wound granulation, intestinal adhesions, atherosclerosis, scleroderma and
XX hypertrophic scars. The present sequence is an antiangiogenic nucleic
XX acid of the invention
XX
XX Sequence 20 BP; 0 A; 20 C; 20 G; 0 T; 0 U; 0 Other;
SQ
Query Match 0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.1e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGGGG 225
Db 1 GGGGGGGGGGGGGGGGGG 20

RESULT 111
ABS78327/c
ID ABS78327 standard; DNA; 20 BP.
XX
XX ABS78327;
XX
XX 13-DEC-2002 (first entry)
XX
XX Angiogenesis inhibitory oligonucleotide #811.
XX
XX Angiogenesis inhibitor; ss; angiogenesis; solid tumour growth;
XX tumour metastasis; precancerous lesion; rheumatoid arthritis; psoriasis;
XX diabetic retinopathy; retinopathy of prematurity; macular degeneration;
XX corneal graft rejection; neovascular glaucoma; retrolental fibroplasia;
XX rubeosis; Osler-Webber Syndrome; myocardial angiogenesis;
XX plaque neovascularisation; telangiectasia; haemophilic joint;
XX angiofibroma; wound granulation; intestinal adhesion; atherosclerosis;
XX scleroderma; hypertrophic scar.
XX
XX Synthetic.
XX
XX WO200253141-A2.
PN
XX
XX 11-JUL-2002.
PD

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XX
XX 14-DEC-2001; 2001WO-US048458.
XX
XX 14-DEC-2000; 2000US-0255534P.
XX
XX (COLE-) COLEY PHARM GROUP INC.
XX
XX Bratzler RL;
PI
XX
XX WPI; 2002-566690/60.
DR
XX
XX Inhibiting angiogenesis in a subject, involves administering at least one
XX antiangiogenic nucleic acid molecule to the subject.
XX
XX Claim 2; Page 33; 276pp; English.
XX
XX The invention relates to inhibiting angiogenesis in a subject, comprising
XX administering at least one antiangiogenic nucleic acid molecule. Also
XX included is a kit comprising a first container housing the antiangiogenic
XX nucleic acids, and instructions for administering them to a subject
XX having a condition characterised by unwanted angiogenesis. The method is
XX useful for inhibiting angiogenesis associated with solid tumour growth,
XX tumour metastasis, precancerous lesion, rheumatoid arthritis, psoriasis,
XX diabetic retinopathy, retinopathy of prematurity, macular degeneration,
XX corneal graft rejection, neovascular glaucoma, retrolental fibroplasia,
XX rubeosis, Osler-Webber Syndrome, myocardial angiogenesis, plaque
XX neovascularisation, telangiectasia, haemophilic joints, angiofibroma,
XX wound granulation, intestinal adhesions, atherosclerosis, scleroderma and
XX hypertrophic scars. The present sequence is an antiangiogenic nucleic
XX acid of the invention
XX
XX Sequence 20 BP; 0 A; 20 C; 20 G; 0 T; 0 U; 0 Other;
SQ
Query Match 0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.1e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGGGG 225
Db 20 GGGGGGGGGGGGGGGGGG 1

RESULT 112
ABS78503
ID ABS78503 standard; DNA; 20 BP.
XX
XX ABS78503;
XX
XX 13-DEC-2002 (first entry)
XX
XX Angiogenesis inhibitory oligonucleotide #987.
XX
XX Angiogenesis inhibitor; ss; angiogenesis; solid tumour growth;
XX tumour metastasis; precancerous lesion; rheumatoid arthritis; psoriasis;
XX diabetic retinopathy; retinopathy of prematurity; macular degeneration;
XX corneal graft rejection; retinopathy of prematurity; macular degeneration;
XX rubeosis; Osler-Webber Syndrome; myocardial angiogenesis;
XX plaque neovascularisation; telangiectasia; haemophilic joint;
XX angiofibroma; wound granulation; intestinal adhesion; atherosclerosis;
XX scleroderma; hypertrophic scar.
XX
XX Synthetic.
XX
XX WO200253141-A2.
PN
XX
XX 11-JUL-2002.
PD
XX
XX 14-DEC-2001; 2001WO-US048458.
XX
XX 14-DEC-2000; 2000US-0255534P.
XX
XX (COLE-) COLEY PHARM GROUP INC.
XX
XX

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PI Bratzler RL;  
XX WPI; 2002-566690/60.  
XX Inhibiting angiogenesis in a subject, involves administering at least one  
PT antiangiogenic nucleic acid molecule to the subject.  
XX Claim 2; Page 37; 276pp; English.  
XX The invention relates to inhibiting angiogenesis in a subject, comprising  
CC administering at least one antiangiogenic nucleic acid molecule. Also  
CC included is a kit comprising a first container housing the antiangiogenic  
CC nucleic acids, and instructions for administering them to a subject  
CC having a condition characterised by unwanted angiogenesis. The method is  
CC useful for inhibiting angiogenesis associated with solid tumour growth,  
CC tumour metastasis, precancerous lesion, rheumatoid arthritis, psoriasis,  
CC diabetic retinopathy, retinopathy of prematurity, macular degeneration,  
CC corneal graft rejection, neovascular glaucoma, retrolental fibroplasia,  
CC rubositis, Osler-Webber Syndrome, myocardial angiogenesis, plaque  
CC neovascularisation, telangiectasia, haemophilic joints, angiodysplasia,  
CC wound granulation, intestinal adhesions, atherosclerosis, scleroderma and  
CC hypertrophic scars. The present sequence is an antiangiogenic nucleic  
CC acid of the invention  
XX Sequence 20 BP; 0 A; 0 C; 20 G; 0 T; 0 U; 0 Other;  
SQ Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 206 GGGGGGGTGGGTGGGGGGG 225  
DB 1 GGGGGGGGGGGGGGGGGGGG 20  
RESULT 113  
ABX76122  
ID ABX76122 standard; DNA; 20 BP.  
XX AC ABX76122;  
XX 31-MAR-2003 (first entry)  
DE Immunostimulatory nucleic acid #133.  
KW ss: immunostimulatory nucleic acid; anaemia; thrombocytopenia;  
KW neutropenia; methylated CpG nucleic acid; T-rich nucleic acid;  
KW poly-G nucleic acid; phosphorothioate backbone; chemotherapy;  
KW radiation treatment; stress; red blood cell; haematopoiesis; synergistic.  
XX OS Synthetic.  
XX US2002165178-A1.  
PN 07-NOV-2002.  
XX 28-JUN-2001; 2001US-00895007.  
XX 28-JUN-2000; 2000US-0214368P.  
XX (SCHE/) SCHETTER C.  
PA (BRAT/) BRATZLER R L.  
PA (PETE/) PETERSEN D M.  
XX Schetter C, Bratzler RL, Petersen DM;  
WPI; 2003-166150/16.  
XX Pharmaceutical composition for treatment of anemia, thrombocytopenia and  
PT neutropenia comprises an immunostimulatory nucleic acid and a medicament  
PT for the respective disease.  
XX Claim 18; Page 9; 27pp; English.

XX The invention discloses a pharmaceutical composition comprising an  
CC immunostimulatory nucleic acid and either an anaemia medicament,  
CC thrombocytopenia medicament or a neutropenia medicament formulated in a  
CC carrier. The immunostimulatory nucleic acid can be selected from a  
CC methylated CpG nucleic acid, a T-rich nucleic acid, a poly-G nucleic acid  
CC and/or a nucleic acid having a phosphorothioate backbone. The  
CC compositions can be used for the treatment or prevention of anaemia,  
CC thrombocytopenia and neutropenia in a subject preparing to undergo  
CC chemotherapy or radiation treatment, and has received at least one dose of  
CC chemotherapy or radiation treatment. The treatment is required due to the  
CC effect of stress, including chemotherapy, on the formation of red blood  
CC cells, haematopoiesis. The composition provides a synergistic effect  
CC which permits a lower dose of the medicament to be used, thus providing  
CC lower costs associated with using lower doses of the medicament, and  
CC reduced chances of inducing side effects. The efficacy of the combination  
CC is profoundly improved over the use of each of the medicaments alone. The  
CC sequences presented in ABX75990-ABX76123 are the immunostimulatory  
CC nucleic acids disclosed in the invention  
XX Sequence 20 BP; 0 A; 0 C; 20 G; 0 T; 0 U; 0 Other;  
SQ Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 206 GGGGGGGTGGGTGGGGGGG 225  
DB 1 GGGGGGGGGGGGGGGGGGGG 20  
RESULT 114  
ABX89934  
ID ABX89934 standard; DNA; 20 BP.  
XX AC ABX89934;  
XX 30-APR-2003 (first entry)  
DE Cancer medicament related immunostimulatory nucleic acid #133.  
KW Immunostimulatory nucleic acid; cancer; cancer vaccine; hormone therapy;  
KW bone cancer; brain cancer; central nervous system cancer; CNS cancer;  
KW connective tissue cancer; oesophageal cancer; eye cancer;  
KW Hodgkin's lymphoma; larynx cancer; oral cavity cancer; skin cancer;  
KW testicular cancer; allergic response; blood transfusion; infection; ss.  
XX OS Unidentified.  
XX US2002156033-A1.  
PN 24-OCT-2002.  
XX 05-MAR-2001; 2001US-00800266.  
XX 03-MAR-2000; 2000US-0187214P.  
XX (BRAT/) BRATZLER R L.  
PA (PETE/) PETERSEN D M.  
XX Bratzler RL, Petersen DM;  
WPI; 2003-275279/27.  
XX Treatment of a subject having, or at risk of developing cancer, involves  
PT the use of an immunostimulatory nucleic acid having a modified backbone  
PT in combination with a cancer medicament.  
XX Disclosure; Page 7; 32pp; English.  
XX The invention describes a method of treating (T1) a subject having cancer  
CC involving administering an immunostimulatory nucleic acid (I) having  
CC modified backbone and a cancer medicament (M1) selected from

chemotherapeutic agent, immunotherapeutic agent, cancer vaccine or hormone therapy. The poly-G nucleic acid is not conjugated to (M1) and is free of CpG and T-rich motifs. The composition is for the treatment of cancer (e.g. bone cancer, brain and CNS cancer, connective tissue cancer, oesophageal cancer, eye cancer, Hodgkin's lymphoma, larynx cancer, oral cavity cancer, skin cancer, and testicular cancer), and for preventing allergic responses in those receiving blood transfusions. It is also useful for the treatment of fungal, bacterial, parasitic and viral infections. The combination of the immunostimulatory nucleic acids and the cancer medicament is synergistic. The combination allows for the administration of higher doses of cancer medicaments without as many side effects, and allows for the administration of lower, sub-therapeutic doses of either compound, but with higher efficacy than would otherwise be achieved using such low doses. The immunostimulatory nucleic acids function by enhancement of anti-body dependent cell cytotoxicity. This mechanism provides long lasting effects of nucleic acids, thus reducing dosing regimens, improving compliance and maintenance therapy, reducing emergency situations and improving quality of life. This sequence represents an immunostimulatory nucleic acid used in the method of treating cancer described in the invention

Sequence 20 BP; 0 A; 0 C; 20 G; 0 T; 0 U; 0 Other;

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGGTGGGGGGG 225  
||||| ||||| ||||| |||||  
Db 1 GGGGGGGGGGGGGGGGGGGG 20

RESULT 115  
ACA58787

ID ACA58787 standard; DNA; 20 BP.  
ACA58787;  
10-JUN-2003 (first entry)

Gastric ulcer treatment immunostimulatory nucleic acid #133.

Gastric ulcer; ss; immunostimulant; equine gastric ulcer syndrome; EGUS; Helicobacter pylori.  
Synthetic.  
US2002198165-A1.  
26-DEC-2002.

01-AUG-2001; 2001US-00920313.  
01-AUG-2000; 2000US-0222248P.  
(BRAT/) BRATZLER R L.  
(PETE/) PETERSEN D M.  
Bratzler RL, Petersen DM;  
WPI; 2003-370798/35.

Prevention or treatment of gastric ulcer involves administering nucleic acid.  
Disclosure; Page 14; 45pp; English.

The invention relates to a method of prevention or treatment of gastric ulcer comprising administering a nucleic acid to a subject in need for treatment of gastric ulcer. A nucleic acid sample comprising oligonucleotide 2006 was administered to a mouse model by an oral route or a vehicle control. Colonisation of mice by Helicobacter pylori was assessed at time points from 1 day to 1 month after treatment. The

ability of the nucleic acid to reduce H. pylori colonisation was assessed. The method is useful for preventing or treating a gastric ulcer on a subject e.g. human or non-human vertebrate animal including dog, cat, horse (equine gastric ulcer syndrome, EGUS), cow, goat, sheep, pig, rabbit, turkey, chicken, primate, rat and mouse. The method effectively treats or prevents gastric ulcers. The present sequence represents an immunostimulatory nucleic acid for the treatment of gastric ulcers

Sequence 20 BP; 0 A; 0 C; 20 G; 0 T; 0 U; 0 Other;

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGGTGGGGGGG 225  
||||| ||||| ||||| |||||  
Db 1 GGGGGGGGGGGGGGGGGGGG 20

RESULT 116  
ACA92790

ID ACA92790 standard; DNA; 20 BP.  
ACA92790;  
16-JUL-2003 (first entry)

Immunostimulatory CpG oligonucleotide #133.

Immunostimulatory oligonucleotide; CpG; ss; vaccine; virucide; immunostimulant; cytostatic; antibacterial; fungicide; viral shedding; oil-in-water emulsion; viral infection; cancer; bone cancer; brain cancer; central nervous system cancer; CNS; eye cancer; connective tissue cancer; oesophageal cancer; Hodgkin's lymphoma; larynx cancer; oral cavity cancer; skin cancer; testicular cancer; bacterial infection; meningitis; HIV infection; AIDS; fungal infection; candidiasis.  
Synthetic.  
WO2003030934-A2.  
17-APR-2003.  
07-OCT-2002; 2002WO-BP011206.  
06-OCT-2001; 2001US-0327734P.  
(QIAG-) QIAGEN GMBH.  
(UYSA-) UNIV SASKATCHEWAN.  
Babiuk LA, Hecker R;  
WPI; 2003-381683/36.

New compositions comprising an immunostimulatory nucleic acid and an oil-in-water emulsion, useful for reducing viral shedding or tissue damage upon vaccination, or for inducing an immune response against infectious diseases.

Claim 34; Page 35; 68pp; English.

The invention relates to a composition comprising an immunostimulatory nucleic acid (especially a CpG dinucleotide containing oligonucleotide) and an oil-in-water emulsion. Also included are reducing viral shedding in a non-human animal (by administering to a non-human animal infected with a virus or at risk of viral infection, an immunostimulatory nucleic acid and an oil-in-water emulsion), reducing tissue damage upon vaccination of a subject by administering to a subject by an invasive route an adjuvanted vaccine and an immunostimulatory nucleic acid to reduce tissue damage arising from the adjuvanted vaccine, where the vaccine is adjuvanted with an oil-in-water emulsion), inducing an immune response (by administering to a subject an oil-in-water emulsion and a



CC CpG oligonucleotide to produce the immune response) and reducing a dosage  
 CC of antigen administered to a subject to produce an antigen specific  
 CC immune response comprising administering to a subject an antigen in a sub  
 CC -therapeutic dosage and an immunostimulatory nucleic acid. The  
 CC composition is useful for reducing viral shedding in a non-human animal  
 CC infected with a virus or at risk of viral infection, for reducing tissue  
 CC damage upon vaccination, for inducing an immune response to treat or  
 CC prevent infectious diseases, for reducing a dosage of antigen  
 CC administered to a subject to produce an antigen specific immune response,  
 CC and for treating or preventing cancer (e.g. bone cancer, brain and CNS  
 CC (central nervous system) cancer, connective tissue cancer, esophageal  
 CC cancer, eye cancer, Hodgkin's lymphoma, larynx cancer, oral cavity  
 CC cancer, skin cancer, or testicular cancer), bacterial (e.g. meningitis),  
 CC viral (e.g. HIV infection leading to AIDS) and fungal (e.g. candidiasis)  
 CC infections. The present sequence is an immunostimulatory oligonucleotide  
 CC of the invention  
 XX  
 SQ Sequence 20 BP; 0 A; 0 C; 20 G; 0 T; 0 U; 0 Other;

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGTGGGGGG 225  
 Db 1 GGGGGGGGGGGGGGGGG 20

RESULT 117  
 ACD99549  
 ID ACD99549 standard; DNA; 20 BP.  
 XX  
 AC ACD99549;  
 XX  
 DT 25-SEP-2003 (first entry)  
 XX  
 DE Immunostimulatory nucleic acid #235.  
 XX  
 KW Immunostimulatory; antiinflammatory; dermatological; antipsoriatic;  
 KW antiulcer; gene therapy; vaccine; non-allergic inflammatory disease;  
 KW psoriasis; eczema; allergic contact dermatitis; latex dermatitis;  
 KW inflammatory bowel disease; ulcerative colitis; Crohn's disease; ss.  
 XX  
 OS Synthetic.

XX  
 XX US2003050268-A1.  
 XX  
 PD 13-MAR-2003.  
 XX  
 PF 29-MAR-2002; 2002US-00112653.  
 XX  
 PR 29-MAR-2001; 2001US-0279642P.  
 XX  
 PA (KRIE//) KRIEG A M.  
 XX (BERG//) BERG D J.  
 XX  
 PI Krieg AM, Berg DJ;  
 XX  
 DR WPI; 2003-521815/49.  
 XX  
 PT Treating non-allergic inflammatory diseases, such as psoriasis, eczema,  
 PT allergic contact dermatitis, latex dermatitis or inflammatory bowel  
 PT disease by administering an immunostimulatory nucleic acid.

XX Disclosure; Page 15; 229pp; English.  
 XX The invention describes a method of treating non-allergic inflammatory  
 CC disease comprising administering to a subject having or at risk of  
 CC developing a non-allergic inflammatory disease an immunostimulatory  
 CC nucleic acid for prevention or treatment of the disease. The method is  
 CC useful for treating non-allergic inflammatory diseases, such as  
 CC psoriasis, eczema, allergic contact dermatitis, latex dermatitis or  
 CC inflammatory bowel disease e.g., ulcerative colitis or Crohn's disease.

CC This sequence represents an immunostimulatory nucleic acid  
 XX  
 SQ Sequence 20 BP; 0 A; 6 C; 14 G; 0 T; 0 U; 0 Other;

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGGGGGGGG 671  
 Db 1 GGCAGCGGGGGGGGGGG 20

RESULT 118  
 ACD99562/c  
 ID ACD99562 standard; DNA; 20 BP.

XX AC ACD99562;  
 XX  
 DT 25-SEP-2003 (first entry)  
 XX  
 DE Immunostimulatory nucleic acid #248.

XX Immunostimulatory; antiinflammatory; dermatological; antipsoriatic;  
 KW antiulcer; gene therapy; vaccine; non-allergic inflammatory disease;  
 KW psoriasis; eczema; allergic contact dermatitis; latex dermatitis;  
 KW inflammatory bowel disease; ulcerative colitis; Crohn's disease; ss.  
 XX  
 OS Synthetic.

XX  
 XX US2003050268-A1.  
 XX  
 PD 13-MAR-2003.  
 XX  
 PF 29-MAR-2002; 2002US-00112653.  
 XX  
 PR 29-MAR-2001; 2001US-0279642P.

XX (KRIE//) KRIEG A M.  
 XX (BERG//) BERG D J.  
 XX  
 PI Krieg AM, Berg DJ;  
 XX  
 DR WPI; 2003-521815/49.

XX Treating non-allergic inflammatory diseases, such as psoriasis, eczema,  
 PT allergic contact dermatitis, latex dermatitis or inflammatory bowel  
 PT disease by administering an immunostimulatory nucleic acid.

XX Disclosure; Page 15; 229pp; English.

XX The invention describes a method of treating non-allergic inflammatory  
 CC disease comprising administering to a subject having or at risk of  
 CC developing a non-allergic inflammatory disease an immunostimulatory  
 CC nucleic acid for prevention or treatment of the disease. The method is  
 CC useful for treating non-allergic inflammatory diseases, such as  
 CC psoriasis, eczema, allergic contact dermatitis, latex dermatitis or  
 CC inflammatory bowel disease e.g., ulcerative colitis or Crohn's disease.

XX Sequence 20 BP; 0 A; 20 C; 0 G; 0 T; 0 U; 0 Other;

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGTGGGGGG 225  
 Db 20 GGGGGGGGGGGGGGGGG 1

RESULT 119  
 ACD99821/c

ID ACD99821 standard; DNA; 20 BP.  
XX  
AC ACD99821;  
XX  
DT 25-SEP-2003 (first entry)  
XX  
DE Immunostimulatory nucleic acid #507.  
XX  
KW Immunostimulatory; antiinflammatory; dermatological; antipsoriatic;  
KW antiulcer; gene therapy; vaccine; non-allergic inflammatory disease;  
KW psoriasis; eczema; allergic contact dermatitis; latex dermatitis;  
KW inflammatory bowel disease; ulcerative colitis; Crohn's disease; ss.  
XX  
OS Synthetic.  
XX  
XX US2003050268-A1.  
XX  
XX 13-MAR-2003.  
XX  
XX 29-MAR-2002; 2002US-00112653.  
XX  
XX 29-MAR-2001; 2001US-0279642P.  
XX  
XX (KRIE/) KRIEG A M.  
XX (BERG/) BERG D J.  
XX  
XX Krieg AM, Berg DJ;  
XX WPI; 2003-521815/49.  
XX  
XX Treating non-allergic inflammatory diseases, such as psoriasis, eczema,  
PT allergic contact dermatitis, latex dermatitis or inflammatory bowel  
PT disease by administering an immunostimulatory nucleic acid.  
XX  
XX Disclosure; Page 22; 229pp; English.  
XX  
XX The invention describes a method of treating non-allergic inflammatory  
CC disease comprising administering to a subject having or at risk of  
CC developing a non-allergic inflammatory disease an immunostimulatory  
CC nucleic acid for prevention or treatment of the disease. The method is  
CC useful for treating non-allergic inflammatory diseases, such as  
CC psoriasis, eczema, allergic contact dermatitis, latex dermatitis or  
CC inflammatory bowel disease e.g., ulcerative colitis or Crohn's disease.  
CC This sequence represents an immunostimulatory nucleic acid  
XX  
XX Sequence 20 BP; 0 A; 20 C; 0 G; 0 T; 0 U; 0 Other;  
XX  
XX Query Match 0.6%; Score 16.8; DB 1; Length 20;  
XX Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
XX Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
XX  
XX The invention describes a method of treating non-allergic inflammatory  
CC disease comprising administering to a subject having or at risk of  
CC developing a non-allergic inflammatory disease an immunostimulatory  
CC nucleic acid for prevention or treatment of the disease. The method is  
CC useful for treating non-allergic inflammatory diseases, such as  
CC psoriasis, eczema, allergic contact dermatitis, latex dermatitis or  
CC inflammatory bowel disease e.g., ulcerative colitis or Crohn's disease.  
CC This sequence represents an immunostimulatory nucleic acid  
XX  
XX Sequence 20 BP; 0 A; 20 C; 0 G; 0 T; 0 U; 0 Other;  
XX  
XX Query Match 0.6%; Score 16.8; DB 1; Length 20;  
XX Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
XX Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
XX  
XX 206 GGGGGGTGGGTGGGGGG 225  
DB 20 GGGGGGGGGGGGGGGG 1  
XX  
XX RESULT 120  
ACD99822  
ID ACD99822 standard; DNA; 20 BP.  
XX  
XX ACD99822;  
XX  
XX 25-SEP-2003 (first entry)  
XX  
XX Immunostimulatory nucleic acid #508.  
XX  
XX Immunostimulatory; antiinflammatory; dermatological; antipsoriatic;  
KW antiulcer; gene therapy; vaccine; non-allergic inflammatory disease;  
KW psoriasis; eczema; allergic contact dermatitis; latex dermatitis;  
KW inflammatory bowel disease; ulcerative colitis; Crohn's disease; ss.  
XX  
OS Synthetic.  
XX

PN US2003050268-A1.  
XX  
PD 13-MAR-2003.  
XX  
PF 29-MAR-2002; 2002US-00112653.  
XX  
PR 29-MAR-2001; 2001US-0279642P.  
XX  
XX (KRIE/) KRIEG A M.  
XX (BERG/) BERG D J.  
XX  
XX Krieg AM, Berg DJ;  
XX WPI; 2003-521815/49.  
XX  
XX Treating non-allergic inflammatory diseases, such as psoriasis, eczema,  
PT allergic contact dermatitis, latex dermatitis or inflammatory bowel  
PT disease by administering an immunostimulatory nucleic acid.  
XX  
XX Disclosure; Page 22; 229pp; English.  
XX  
XX The invention describes a method of treating non-allergic inflammatory  
CC disease comprising administering to a subject having or at risk of  
CC developing a non-allergic inflammatory disease an immunostimulatory  
CC nucleic acid for prevention or treatment of the disease. The method is  
CC useful for treating non-allergic inflammatory diseases, such as  
CC psoriasis, eczema, allergic contact dermatitis, latex dermatitis or  
CC inflammatory bowel disease e.g., ulcerative colitis or Crohn's disease.  
CC This sequence represents an immunostimulatory nucleic acid  
XX  
XX Sequence 20 BP; 0 A; 0 C; 20 G; 0 T; 0 U; 0 Other;  
XX  
XX Query Match 0.6%; Score 16.8; DB 1; Length 20;  
XX Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
XX Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
XX  
XX 206 GGGGGGTGGGTGGGGGG 225  
DB 1 GGGGGGGGGGGGGGGG 20  
XX  
XX RESULT 121  
ADA38113/c  
ID ADA38113 standard; DNA; 20 BP.  
XX  
XX ADA38113;  
XX  
XX 20-NOV-2003 (first entry)  
XX  
XX Antisense oligo CG50249-01-AS3 inhibits voltage gated potassium channel.  
XX  
XX CG50249-01-AS3; WNT-7B; N-acetylglucosaminyltransferase;  
KW voltage-gated potassium channel; ion transport; Map3K8; thymidine kinase;  
KW cell proliferation; H-Ras; small interfering RNA; siRNA; embryogenesis;  
KW carcinogenesis; tumour progression; cell migration; matrix invasion;  
KW cell differentiation; stress response; cytosstatic; antiinflammatory;  
KW cardiac arrhythmia; neurological disorder; epilepsy; interleukin 1b;  
KW 1l-1b; antisense; ss.  
XX  
XX Unidentified.  
XX  
XX Key Location/Qualifiers  
PH misc\_binding 1..20 a  
FT /tag= a  
FT /bound\_moiety= "Voltage gated potassium channel DNA"  
FT /note= "Forms double stranded region with nucleotides 90-  
XX 71 of sequence in {segid:3}"  
XX  
XX WO2003070160-A2.  
XX  
XX 28-AUG-2003.  
XX  
XX 27-NOV-2002; 2002WO-US038188.  
XX  
XX

XX 29-NOV-2001; 2001US-0334148P.  
 PR 04-DEC-2001; 2001US-0336572P.  
 PR 02-APR-2002; 2002US-00114153.  
 PR 02-APR-2002; 2002US-00114270.  
 PR 01-MAY-2002; 2002US-00136826.  
 XX (CURA-) CURAGEN CORP.  
 PA  
 XX Ju J, Huang C, Zhong H, Simons JF, Taillon BE, Chant JS;  
 PI Peyman JA, Smithson G, Millet I;  
 XX WPI; 2003-697551/66.  
 DR  
 XX New oligonucleotides, useful in treatment and diagnosis of e.g. tumors,  
 PT inhibit expression of six specific genes, e.g. the oncogene WNT-7B, by  
 PT RNA interference.  
 XX  
 PS Claim 9; Page 45; 75pp; English.  
 XX  
 CC This invention relates to novel antisense oligonucleotides that modulate  
 CC the expression of WNT-7B, N-acetylglucosaminyltransferase, the voltage-  
 CC gated potassium channel, ion transport, Map3K8 or thymidine kinase.  
 CC Specifically, the invention describes inhibiting cell proliferation by  
 CC modulating the function of oncology targets: H-Ras, WNT-7B and  
 CC acetylglucosaminyltransferase. Small interfering RNA (siRNA) along with  
 CC the antisense compounds specifically hybridize to the target nucleic acid  
 CC molecules to inhibit gene expression. The Wnt proteins are secreted  
 CC ligands involved in embryogenesis and carcinogenesis, such that these  
 CC antisense oligos are useful for treating breast, gastric and colon  
 CC cancers. N-acetylglucosaminyltransferases are associated with tumour  
 CC progression, cell migration and matrix invasion, while Map3K8 regulates  
 CC cell differentiation and stress responses, such that antisense inhibitors  
 CC are cytostatic and antiinflammatory, and can be useful in cell  
 CC proliferative disorders. The voltage gated K channel maintains membrane  
 CC potential and modulates electrical excitability in neurons and can be  
 CC useful in the treatment of cardiac arrhythmias and neurological disorders  
 CC such as epilepsy. Thymidine kinase is important in DNA synthesis, and  
 CC antisense compounds can treat cell proliferation and modulate the  
 CC expression of interleukin 1b (IL-1b). Furthermore, antisense  
 CC oligonucleotides of the invention were designed to target H-ras and  
 CC interleukin 8 to inhibit their expression. This oligonucleotide sequence  
 CC is the CG50249-01-AS3 oligo used to inhibit expression of the voltage  
 CC gated potassium channel, in an exemplification of the invention.  
 XX  
 SQ Sequence 20 BP; 1 A; 3 C; 9 G; 7 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. NO. 1.1e+02;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 539 ATGAGACCTACCGCAGCACC 558  
 DB 20 ACGAAACCTACCGCAGCACC 1  
 RESULT 122  
 ID ADB36618 standard; DNA; 20 BP.  
 XX ADB36618;  
 XX  
 DT 04-DEC-2003 (first entry)  
 XX Immunostimulatory nucleic acid #232.  
 DE  
 XX ds; allergy; asthma; poly-G nucleic acid; aerosol formulation;  
 KW hypo-responsive subject; immunostimulatory.  
 XX Synthetic.  
 OS  
 XX US2003087848-A1.  
 FN  
 PD 08-MAY-2003.  
 XX  
 XX 02-FEB-2001; 2001US-00776479.  
 PR 03-FEB-2000; 2000US-0179991P.  
 XX (BRAT/) BRATZLER R L.  
 PA (PETE/) PETERSEN D M.  
 PA (FOUR/) FOURON Y.  
 XX Bratzler RL, Petersen DM, Fouron Y;  
 PI WPI; 2003-657977/62.  
 DR  
 XX Treating and/or preventing allergy or asthma using an immunostimulatory  
 PT nucleic acid alone or in combination with an asthma/allergy medicament.  
 PT  
 XX Disclosure; Page 8; 221pp; English.  
 PS  
 XX The invention relates to a method of treating or preventing allergy or  
 CC asthma which comprises administering to a subject a poly-G nucleic acid  
 CC in an aerosol formulation. The methods and compositions of the present  
 CC invention are useful for diagnosing and/or treating asthma and allergy  
 CC especially in a hypo-responsive subject. The present sequence represents  
 CC an immunostimulatory nucleic acid of the invention.  
 XX  
 SQ Sequence 20 BP; 0 A; 6 C; 14 G; 0 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. NO. 1.1e+02;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 652 GCGAGCAGCGCGCGCGG 671  
 DB 1 GCGCGCGCGCGCGCGG 20  
 RESULT 123  
 ID ADB36632/c  
 ID ADB36632 standard; DNA; 20 BP.  
 XX ADB36632;  
 XX  
 DT 04-DEC-2003 (first entry)  
 XX Immunostimulatory nucleic acid #246.  
 DE  
 XX ds; allergy; asthma; poly-G nucleic acid; aerosol formulation;  
 KW hypo-responsive subject; immunostimulatory.  
 XX Synthetic.  
 OS  
 XX US2003087848-A1.  
 FN  
 PD 08-MAY-2003.  
 XX  
 XX 02-FEB-2001; 2001US-00776479.  
 PR 03-FEB-2000; 2000US-0179991P.  
 XX (BRAT/) BRATZLER R L.  
 PA (PETE/) PETERSEN D M.  
 PA (FOUR/) FOURON Y.  
 XX Bratzler RL, Petersen DM, Fouron Y;  
 PI WPI; 2003-657977/62.  
 DR  
 XX Treating and/or preventing allergy or asthma using an immunostimulatory  
 PT nucleic acid alone or in combination with an asthma/allergy medicament.  
 PT  
 XX Disclosure; Page 9; 221pp; English.  
 PS  
 XX

PD 08-MAY-2003.  
 XX  
 PF 02-FEB-2001; 2001US-00776479.  
 XX  
 PR 03-FEB-2000; 2000US-0179991P.  
 XX (BRAT/) BRATZLER R L.  
 PA (PETE/) PETERSEN D M.  
 PA (FOUR/) FOURON Y.  
 XX Bratzler RL, Petersen DM, Fouron Y;  
 PI WPI; 2003-657977/62.  
 DR  
 XX Treating and/or preventing allergy or asthma using an immunostimulatory  
 PT nucleic acid alone or in combination with an asthma/allergy medicament.  
 PT  
 XX Disclosure; Page 8; 221pp; English.  
 PS  
 XX The invention relates to a method of treating or preventing allergy or  
 CC asthma which comprises administering to a subject a poly-G nucleic acid  
 CC in an aerosol formulation. The methods and compositions of the present  
 CC invention are useful for diagnosing and/or treating asthma and allergy  
 CC especially in a hypo-responsive subject. The present sequence represents  
 CC an immunostimulatory nucleic acid of the invention.  
 XX  
 SQ Sequence 20 BP; 0 A; 6 C; 14 G; 0 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. NO. 1.1e+02;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 652 GCGAGCAGCGCGCGCGG 671  
 DB 1 GCGCGCGCGCGCGCGG 20  
 RESULT 123  
 ID ADB36632/c  
 ID ADB36632 standard; DNA; 20 BP.  
 XX ADB36632;  
 XX  
 DT 04-DEC-2003 (first entry)  
 XX Immunostimulatory nucleic acid #246.  
 DE  
 XX ds; allergy; asthma; poly-G nucleic acid; aerosol formulation;  
 KW hypo-responsive subject; immunostimulatory.  
 XX Synthetic.  
 OS  
 XX US2003087848-A1.  
 FN  
 PD 08-MAY-2003.  
 XX  
 XX 02-FEB-2001; 2001US-00776479.  
 PR 03-FEB-2000; 2000US-0179991P.  
 XX (BRAT/) BRATZLER R L.  
 PA (PETE/) PETERSEN D M.  
 PA (FOUR/) FOURON Y.  
 XX Bratzler RL, Petersen DM, Fouron Y;  
 PI WPI; 2003-657977/62.  
 DR  
 XX Treating and/or preventing allergy or asthma using an immunostimulatory  
 PT nucleic acid alone or in combination with an asthma/allergy medicament.  
 PT  
 XX Disclosure; Page 9; 221pp; English.  
 PS  
 XX

CC The invention relates to a method of treating or preventing allergy or  
CC asthma which comprises administering to a subject a poly-G nucleic acid  
CC in an aerosol formulation. The methods and compositions of the present  
CC invention are useful for diagnosing and/or treating asthma and allergy  
CC especially in a hypo-responsive subject. The present sequence represents  
CC an immunostimulatory nucleic acid of the invention.  
XX  
SQ Sequence 20 BP; 0 A; 20 C; 0 G; 0 T; 0 U; 0 Other;  
  
Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 206 GGGGGGGTGGGTGGGGGGG 225  
DB 20 GGGGGGGGGGGGGGGGGG 1  
  
RESULT 124  
ADB36903/C  
ID ADB36903 standard; DNA; 20 BP.  
XX  
AC ADB36903;  
XX  
DT 04-DEC-2003 (first entry)  
XX  
DE Immunostimulatory nucleic acid #517.  
XX  
KW ds; allergy; asthma; poly-G nucleic acid; aerosol formulation;  
KW hypo-responsive subject; immunostimulatory.  
XX  
OS Synthetic.  
XX  
PN US2003087848-A1.  
XX  
PD 08-MAY-2003.  
XX  
PF 02-FEB-2001; 2001US-00776479.  
XX  
PR 03-FEB-2000; 2000US-0179991P.  
XX  
PA (BRAT/) BRATZLER R L.  
PA (PETE/) PETERSEN D M.  
PA (FOUR/) FOURON Y.  
XX  
PI Bratzler RL, Petersen DM, Fouron Y;  
XX  
DR WPI; 2003-657977/62.  
XX  
PT Treating and/or preventing allergy or asthma using an immunostimulatory  
PT nucleic acid alone or in combination with an asthma/allergy medicament.  
XX  
OS Synthetic.  
XX  
PN US2003087848-A1.  
XX  
PD 08-MAY-2003.  
XX  
PF 02-FEB-2001; 2001US-00776479.  
XX  
PR 03-FEB-2000; 2000US-0179991P.  
XX  
PA (BRAT/) BRATZLER R L.  
PA (PETE/) PETERSEN D M.  
PA (FOUR/) FOURON Y.  
XX  
PI Bratzler RL, Petersen DM, Fouron Y;  
XX  
DR WPI; 2003-657977/62.  
XX  
PT Treating and/or preventing allergy or asthma using an immunostimulatory  
PT nucleic acid alone or in combination with an asthma/allergy medicament.  
XX  
OS Synthetic.  
XX  
PN US2003087848-A1.  
XX  
PD 08-MAY-2003.  
XX  
PF 02-FEB-2001; 2001US-00776479.

ADB36904  
ID ADB36904 standard; DNA; 20 BP.  
XX  
AC ADB36904;  
XX  
DT 04-DEC-2003 (first entry)  
XX  
DE Immunostimulatory nucleic acid #518.  
XX  
KW ds; allergy; asthma; poly-G nucleic acid; aerosol formulation;  
KW hypo-responsive subject; immunostimulatory.  
XX  
OS Synthetic.  
XX  
PN US2003087848-A1.  
XX  
PD 08-MAY-2003.  
XX  
PF 02-FEB-2001; 2001US-00776479.  
XX  
PR 03-FEB-2000; 2000US-0179991P.  
XX  
PA (BRAT/) BRATZLER R L.  
PA (PETE/) PETERSEN D M.  
PA (FOUR/) FOURON Y.  
XX  
PI Bratzler RL, Petersen DM, Fouron Y;  
XX  
DR WPI; 2003-657977/62.  
XX  
PT Treating and/or preventing allergy or asthma using an immunostimulatory  
PT nucleic acid alone or in combination with an asthma/allergy medicament.  
XX  
OS Synthetic.  
XX  
PN US2003087848-A1.  
XX  
PD 08-MAY-2003.  
XX  
PF 02-FEB-2001; 2001US-00776479.  
  
Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 206 GGGGGGGTGGGTGGGGGGG 225  
DB 1 GGGGGGGGGGGGGGGGGG 20  
  
RESULT 126  
ADB37110/C  
ID ADB37110 standard; DNA; 20 BP.  
XX  
AC ADB37110;  
XX  
DT 04-DEC-2003 (first entry)  
XX  
DE Immunostimulatory nucleic acid #724.  
XX  
KW ds; allergy; asthma; poly-G nucleic acid; aerosol formulation;  
KW hypo-responsive subject; immunostimulatory.  
XX  
OS Synthetic.  
XX  
PN US2003087848-A1.  
XX  
PD 08-MAY-2003.  
XX  
PF 02-FEB-2001; 2001US-00776479.

```
XX PR 03-FEB-2000; 2000US-0179991P.
XX PA (BRAT/) BRATZLER R L.
XX PA (PETE/) PETERSEN D M.
XX PA (FOUR/) FOURON Y.
XX PI Bratzler RL, Petersen DM, Fouron Y;
XX DR WPI; 2003-657977/62.
XX PT Treating and/or preventing allergy or asthma using an immunostimulatory
XX PT nucleic acid alone or in combination with an asthma/allergy medicament.
XX PS Disclosure; Page 16; 221pp; English.
XX CC The invention relates to a method of treating or preventing allergy or
XX CC asthma which comprises administering to a subject a poly-G nucleic acid
XX CC in an aerosol formulation. The methods and compositions of the present
XX CC invention are useful for diagnosing and/or treating asthma and allergy
XX CC especially in a hypo-responsive subject. The present sequence represents
XX CC an immunostimulatory nucleic acid of the invention.
XX SQ Sequence 20 BP; 0 A; 20 C; 0 G; 0 T; 0 U; 0 Other;
      Query Match      0.6%; Score 16.8; DB 1; Length 20;
      Best Local Similarity 90.0%; Pred. No. 1.1e+02;
      Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

      206 GGGGGGGTGGGGTGGGGGGG 225
      ||||| ||||| ||||| |||||
      Db 1 GGGGGGGGGGGGGGGGGGGG 20

RESULT 127
ADB37284
ID ADB37284 standard; DNA; 20 BP.
XX AC ADB37284;
XX DT 04-DEC-2003 (first entry)
XX DE Immunostimulatory nucleic acid #898.
XX ds; allergy; asthma; poly-G nucleic acid; aerosol formulation;
XX KW hypo-responsive subject; immunostimulatory.
XX OS Synthetic.
XX FN US2003087848-A1.
XX PD 08-MAY-2003.
XX PF 02-FEB-2001; 2001US-00776479.
XX PR 03-FEB-2000; 2000US-0179991P.
XX PA (BRAT/) BRATZLER R L.
XX PA (PETE/) PETERSEN D M.
XX PA (FOUR/) FOURON Y.
XX PI Bratzler RL, Petersen DM, Fouron Y;
XX DR WPI; 2003-657977/62.
XX PT Treating and/or preventing allergy or asthma using an immunostimulatory
XX PT nucleic acid alone or in combination with an asthma/allergy medicament.
XX PS Disclosure; Page 18; 221pp; English.
XX CC The invention relates to a method of treating or preventing allergy or
XX CC asthma which comprises administering to a subject a poly-G nucleic acid
XX CC in an aerosol formulation. The methods and compositions of the present
```

```
CC invention are useful for diagnosing and/or treating asthma and allergy
CC especially in a hypo-responsive subject. The present sequence represents
CC an immunostimulatory nucleic acid of the invention.
XX SQ Sequence 20 BP; 0 A; 0 C; 20 G; 0 T; 0 U; 0 Other;
      Query Match      0.6%; Score 16.8; DB 1; Length 20;
      Best Local Similarity 90.0%; Pred. No. 1.1e+02;
      Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

      206 GGGGGGGTGGGGTGGGGGGG 225
      ||||| ||||| ||||| |||||
      Db 1 GGGGGGGGGGGGGGGGGGG 20

RESULT 128
ADD71314/c
ID ADD71314 standard; DNA; 20 BP.
XX AC ADD71314;
XX DT 15-JAN-2004 (first entry)
XX DE Nucleic acid detection method-related universal DNA sequence #1.
XX DE nucleic acid detection; nucleic acid quantitation; universal sequence;
XX KW ss.
XX OS Synthetic.
XX FN WO2003078587-A2.
XX PD 25-SEP-2003.
XX PF 13-MAR-2003; 2003WO-US007818.
XX PR 13-MAR-2002; 2002US-0364230P.
XX PA (SYGN ) SYNGENTA PARTICIPATIONS AG.
XX PA (SHIL/) SHI L.
XX PI Shi L;
XX DR WPI; 2003-803888/75.
XX PT Detecting the presence of a target nucleic acid molecule in templates by
XX PT combining a detection probe, a first oligonucleotide, second
XX PT oligonucleotide, a primer and templates suspected of containing the
XX PT target nucleic acid molecule.
XX PS Example 1; SEQ ID NO 1; 42pp; English.
XX CC The invention comprises a method for detecting a target nucleic acid
XX CC molecule in a plurality of templates, the method involves combining a
XX CC detection probe, a first oligonucleotide, second oligonucleotide, a
XX CC primer and a plurality of templates suspected of containing the target
XX CC nucleic acid molecule. The method of the invention is useful for
XX CC detecting the presence of a target nucleic acid molecule in a plurality
XX CC of templates. The method is also useful for quantitating a particular
XX CC nucleic acid molecule in a sample. The invention provides a rapid,
XX CC reliable and cost-effective method for detecting a particular nucleic
XX CC acid molecule in a sample. The present DNA sequence represents a
XX CC universal sequence that was used in an example of the invention.
XX SQ Sequence 20 BP; 0 A; 20 C; 0 G; 0 T; 0 U; 0 Other;
      Query Match      0.6%; Score 16.8; DB 1; Length 20;
      Best Local Similarity 90.0%; Pred. No. 1.1e+02;
      Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

      206 GGGGGGGTGGGGTGGGGGGG 225
      ||||| ||||| ||||| |||||
      Db 20 GGGGGGGGGGGGGGGGGGG 1
```

RESULT 129	
ADM10614/c	
ID ADM10614 standard; DNA; 20 BP.	
XX	
AC ADM10614;	
CC	
XX 20-MAY-2004 (first entry)	
DE Human voltage gated potassium channel antisense oligonucleotide #3.	
XX	
XX Human; ss; antisense gene therapy; WNT-7B;	
KW N-acetylglucosaminyltransferase; voltage-gated K channel;	
KW ion transport channel; Map3K8;	
KW mitogen activated protein kinase kinase kinase 8; thymidine kinase;	
KW H-ras; interleukin-1b; interleukin 8; cytostatic; antimicrobial;	
KW antiinflammatory; cell proliferative disorder; infection; inflammation.	
OS	
XX Homo sapiens.	
OS	
XX US2003176385-A1.	
PN	
XX 18-SEP-2003.	
XX	
XX 27-NOV-2002; 2002US-00305810.	
XX	
PR 15-FEB-2000; 2000US-0182637P.	
PR 29-MAR-2000; 2000US-0192838P.	
PR 03-APR-2000; 2000US-0194256P.	
PR 26-JUL-2000; 2000US-00625634.	
PR 29-NOV-2001; 2001US-0334148P.	
PR 04-DEC-2001; 2001US-0336572P.	
XX	
XX (JUJ/J) JU J.	
PA (HUAN/) HUANG C.	
PA (ZHON/) ZHONG H.	
PA (SIMO/) SIMONS J F.	
PA (TAIL/) TAILLON B E.	
PA (CHAN/) CHANT J S.	
PA (PEYM/) PEYMAN J A.	
PA (SMIT/) SMITHSON G.	
PA (MILL/) MILLET I.	
XX	
PI Ju J, Huang C, Zhong H, Simons JF, Taillon BE, Chant JS;	
PI Peyman JA, Smithson G, Millet I;	
XX	
XX WPI; 2003-898588/82.	
XX	
XX New antisense oligonucleotide for modulating expression of WNT-7B, N-	
PT acetylglucosaminyltransferase, voltage-gated K channel, ion transport,	
PT Map3K8 or thymidine kinase, or for treating cancer, infection or	
PT inflammation.	
XX	
PS Claim 8; SEQ ID NO 19; 43pp; English.	
XX	
XX The invention relates to an oligonucleotide (antisense) 20-50 or 10-50	
CC nucleotides in length that is targeted to regions of the cDNAs appearing	
CC as ADM10596-ADM10601 (human WNT-7B, N-acetylglucosaminyltransferase,	
CC voltage-gated K channel, ion transport channel, Map3K8 (mitogen activated	
CC protein kinase kinase kinase 8) or thymidine kinase. Also included are	
CC methods of inhibiting the expression of WNT-7B. N-	
CC acetylglucosaminyltransferase, voltage-gated K channel, ion transport,	
CC Map3K8 or thymidine kinase in a cell, comprising contacting the cell with	
CC the oligonucleotide cited above, a method of inhibiting cell	
CC proliferation (comprising contacting a cell with the oligonucleotide	
CC cited above) and a method of increasing the production of IL-1b	
CC (interleukin 1b) in a cell (comprising contacting a cell with the	
CC oligonucleotide cited above). Also disclosed are antisense	
CC oligonucleotides for H-ras and interleukin-8. The antisense	
CC oligonucleotide is useful in modulating the expression of WNT-7B, N-	
CC acetylglucosaminyltransferase, voltage-gated K channel, ion transport	
CC channel, Map3K8 or thymidine kinase to treat diseases associated with	



OS Synthetic.  
 XX WO2004081183-A2.  
 PN  
 XX  
 PD 23-SEP-2004.  
 XX  
 XX 08-MAR-2004; 2004WO-US006982.  
 PF  
 XX  
 PR 07-MAR-2003; 2003US-0453071P.  
 XX  
 XX (RUBI-) RUBICON GENOMICS INC.  
 PA  
 XX Pinter J, Kurihara T, Sleptsova I, Bruening E, Ziehler W;  
 PI Makarov VL;  
 XX  
 XX WPI; 2004-668947/65.  
 DR  
 XX  
 XX Preparing a DNA molecule comprises attaching an adaptor having at least  
 PT one known sequence and a nonblocked 3' end to the ends of the modified  
 PT DNA fragments to produce adaptor-linked fragments.  
 PT  
 XX  
 XX Disclosure; SEQ ID NO 55; 205pp; English.  
 PS  
 XX The invention relates to a method of preparing a DNA molecule by  
 CC attaching an adaptor having at least one known sequence and a nonblocked  
 CC 3' end to the ends of the modified DNA fragments to produce adaptor-  
 CC linked fragments, where the 5' end of the modified DNA is attached to the  
 CC nonblocked 3' end of the adaptor, leaving a nick site between the  
 CC juxtaposed 3' end of the DNA and a 5' end of the adaptor. The method  
 CC comprises: (a) obtaining at least one DNA molecule; (b) randomly  
 CC fragmenting the DNA molecule to produce DNA fragments; (c) modifying the  
 CC ends of the DNA fragments to provide attachable ends; (d) attaching an  
 CC adaptor having at least one known sequence and a nonblocked 3' end to  
 CC the ends of the modified DNA fragments to produce adaptor-linked  
 CC fragments, where the 5' end of the modified DNA is attached to the  
 CC nonblocked 3' end of the adaptor, leaving a nick site between the  
 CC juxtaposed 3' end of the DNA and a 5' end of the adaptor; (e) extending  
 CC the 3' end of the modified DNA from the nick site; and (f) amplifying  
 CC the adaptor-linked fragments. This sequence corresponds to an  
 CC oligonucleotide used in the method of the invention.  
 XX  
 XX Sequence 20 BP; 0 A; 20 C; 0 G; 0 T; 0 U; 0 Other;  
 SQ  
 Query Match 0.6%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 206 GGGGGGGTGGGGTGGGGGGG 225  
 Db 20 GGGGGGGGGGGGGGGGGGG 1  
 RESULT 134  
 ADT04251  
 ID ADT04251 standard; DNA; 20 BP.  
 XX  
 AC ADT04251;  
 XX  
 XX 30-DEC-2004 (first entry)  
 DT  
 XX  
 XX Novel immunostimulatory oligonucleotide sequence SeqID133.  
 DE  
 XX immune response; oil-in-water emulsion; immunostimulatory nucleic acid;  
 KW cytostatic; antibacterial; virucide; fungicide; antiparasitic;  
 KW dermatological; antipsoriatic; antiallergic; antimalarial; hepatotropic;  
 KW antiinflammatory; immunosuppressive; antitachmatic; gastrointestinal-Gen;  
 KW antiulcer; infectious disease; bacterial infection; fungal infection;  
 KW viral infection; melanoma; basal cell carcinoma; cervical cancer;  
 KW contact dermatitis; eczema; psoriasis; atopic dermatitis;  
 KW allergic contact dermatitis; latex dermatitis; oesophageal cancer;  
 KW eye cancer; larynx cancer; oral cavity cancer; skin cancer;  
 KW ovarian cancer; testicular cancer; parasitic infection; malaria;  
 KW anaphylaxis; allergic rhinitis; allergic asthma;

KW inflammatory bowel disease; Crohn's disease; ulcerative colitis; ss.  
 XX  
 OS Unidentified.  
 OS Synthetic.  
 XX  
 PN WO2004087203-A2.  
 XX  
 PD 14-OCT-2004.  
 XX  
 XX 01-APR-2004; 2004WO-IB001371.  
 PF  
 XX 02-APR-2003; 2003US-0459920P.  
 PR  
 XX 10-APR-2003; 2003US-0461903P.  
 XX  
 XX (COLE-) COLEY PHARM GROUP LTD.  
 PA  
 XX  
 PI Davis HL, Mccluskie MJ;  
 XX  
 DR WPI; 2004-737575/72.  
 XX  
 XX Inducing immune response in subject useful for preventing and/or treating  
 PT viral infection e.g., human papilloma virus infection, involves topically  
 PT administering oil-in-water emulsion and immunostimulatory nucleic acid,  
 PT to subject.  
 XX  
 XX Claim 18; SEQ ID NO 133; 188pp; English.  
 PS  
 XX This invention relates to a novel method of inducing an immune response,  
 CC which involves topically administering to a subject an oil-in-water  
 CC emulsion and an immunostimulatory nucleic acid to induce an immune  
 CC response. The invention may be useful for the production of compounds  
 CC with a cytostatic, antibacterial, virucide, fungicide, antiparasitic,  
 CC dermatological, antipsoriatic, antiallergic, antimalarial, hepatotropic,  
 CC antiinflammatory, immunosuppressive, antitachmatic, gastrointestinal-Gen  
 CC or antitumor activity. The method is useful for inducing an immune  
 CC response in a subject having cancer or an infectious disease, or at risk  
 CC of developing an infectious disease such as bacterial infection, fungal  
 CC infection or viral infection, where the subject is an immunocompromised  
 CC subject. The cancer is chosen from melanoma, basal cell carcinoma and  
 CC cervical cancer. The subject has or is at risk of developing a condition  
 CC chosen from contact dermatitis, eczema, psoriasis, atopic dermatitis,  
 CC allergic contact dermatitis and latex dermatitis. The oil-in-water  
 CC emulsion and immunostimulatory nucleic acid of the invention is useful  
 CC for treating a subject having oesophageal cancer, eye cancer, larynx  
 CC cancer, oral cavity cancer, skin cancer, ovarian cancer and testicular  
 CC cancer, parasitic infection caused by parasites such as Leishmania  
 CC donovani, or Plasmodium falciparum, P malariae or P vivax causing  
 CC malaria, infection caused by Staphylococcus or Escherichia coli  
 CC infection, or viral infections caused by Hepatitis B virus or Hepatitis C  
 CC virus. The invention is useful in treating anaphylaxis, allergic rhinitis  
 CC or allergic asthma, inflammatory bowel disease, Crohn's disease and  
 CC ulcerative colitis. The invention is also useful for stimulating immune  
 CC responses, useful in the prevention and/or treatment of the above-  
 CC mentioned diseases. The oil-in-water emulsion and the immunostimulatory  
 CC nucleic acid of the invention is capable of inducing long lasting antigen  
 CC -specific responses. The present sequence is that of an immunostimulatory  
 CC oligonucleotide which may be used in the method of the invention.  
 XX  
 XX Sequence 20 BP; 0 A; 0 C; 20 G; 0 T; 0 U; 0 Other;  
 SQ  
 Query Match 0.6%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 206 GGGGGGGTGGGGTGGGGGGG 225  
 Db 1 GGGGGGGGGGGGGGGGGGG 20  
 RESULT 135  
 ADU89559  
 ID ADU89559 standard; DNA; 20 BP.  
 XX



```

AC ADU89559;
XX 10-FEB-2005 (first entry)
XX Allergic response suppressor oligonucleotide #243.
XX ss; antiasthmatic; antiallergic; dermatological; antiinflammatory;
KW antibacterial; virucide; immunoglobulin E antagonist; allergy;
KW immunostimulatory; asthma; rhinitis; urticaria; dermatitis;
KW bacterial infection; viral infection.
XX Synthetic.
XX US2004235774-A1.
XX 25-NOV-2004.
XX 23-APR-2004; 2004US-00831778.
XX 03-FEB-2000; 2000US-0179991P.
XX 02-FEB-2001; 2001US-00776479.
XX (BRAT/) BRATZLER R L.
XX (PETE/) PETERSEN D M.
XX (FOUR/) FOURON Y.
XX Bratzler RL, Petersen DM, Fouron Y;
XX WPI; 2004-833006/82.
XX Suppressing allergies, including asthma, rhinitis, urticaria and atopic
XX dermatitis, in a subject, comprises administering a first and second dose
XX of an immunostimulatory nucleic acid.
XX Disclosure; SEQ ID NO 243; 235pp; English.
XX The invention relates to a method of suppressing a symptom of an allergic
XX response in a subject by administering a first and second dose of an
XX immunostimulatory nucleic acid that comprises a nucleotide sequence
XX comprising 5'-cg-3', and where the second dose is administered from 1 day
XX to 8 weeks after the first dose. The methods and compositions of the
XX present invention are useful for the treatment or prevention of asthma
XX and allergy, including rhinitis, urticaria and atopic dermatitis, using
XX an immunostimulatory nucleic acid alone or in combination with other
XX medicaments. They can also be used in preventing bacterial and viral
XX infections. This sequence represents an oligonucleotide used in the
XX method of the invention.
XX Sequence 20 BP; 0 A; 6 C; 14 G; 0 T; 0 U; 0 Other;
XX Query Match 0.6%; Score 16.8; DB 1; Length 20;
XX Best Local Similarity 90.0%; Pred. NO. 1.1e+02;
XX Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 652 GCGACGCGCGCGCGCGG 671
DB 1 GCGCGCGCGCGCGCGCGG 20
RESULT 136
ADU89573/c
ID ADU89573 standard; DNA; 20 BP.
XX ADU89573;
XX 10-FEB-2005 (first entry)
XX Allergic response suppressor oligonucleotide #257.
XX ss; antiasthmatic; antiallergic; dermatological; antiinflammatory;
KW antibacterial; virucide; immunoglobulin E antagonist; allergy;
KW immunostimulatory; asthma; rhinitis; urticaria; dermatitis;
KW bacterial infection; viral infection.

```

```

XX Synthetic.
XX US2004235774-A1.
XX 25-NOV-2004.
XX 23-APR-2004; 2004US-00831778.
XX 03-FEB-2000; 2000US-0179991P.
XX 02-FEB-2001; 2001US-00776479.
XX (BRAT/) BRATZLER R L.
XX (PETE/) PETERSEN D M.
XX (FOUR/) FOURON Y.
XX Bratzler RL, Petersen DM, Fouron Y;
XX WPI; 2004-833006/82.
XX Suppressing allergies, including asthma, rhinitis, urticaria and atopic
XX dermatitis, in a subject, comprises administering a first and second dose
XX of an immunostimulatory nucleic acid.
XX Disclosure; SEQ ID NO 257; 235pp; English.
XX The invention relates to a method of suppressing a symptom of an allergic
XX response in a subject by administering a first and second dose of an
XX immunostimulatory nucleic acid that comprises a nucleotide sequence
XX comprising 5'-cg-3', and where the second dose is administered from 1 day
XX to 8 weeks after the first dose. The methods and compositions of the
XX present invention are useful for the treatment or prevention of asthma
XX and allergy, including rhinitis, urticaria and atopic dermatitis, using
XX an immunostimulatory nucleic acid alone or in combination with other
XX medicaments. They can also be used in preventing bacterial and viral
XX infections. This sequence represents an oligonucleotide used in the
XX method of the invention.
XX Sequence 20 BP; 0 A; 20 C; 0 G; 0 T; 0 U; 0 Other;
XX Query Match 0.6%; Score 16.8; DB 1; Length 20;
XX Best Local Similarity 90.0%; Pred. NO. 1.1e+02;
XX Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 206 GCGCGCGCGCGCGCGG 225
DB 20 GCGCGCGCGCGCGCGG 1
RESULT 137
ADU89846/c
ID ADU89846 standard; DNA; 20 BP.
XX ADU89846;
XX 10-FEB-2005 (first entry)
XX Allergic response suppressor oligonucleotide #530.
XX ss; antiasthmatic; antiallergic; dermatological; antiinflammatory;
KW antibacterial; virucide; immunoglobulin E antagonist; allergy;
KW immunostimulatory; asthma; rhinitis; urticaria; dermatitis;
KW bacterial infection; viral infection.
XX Synthetic.
XX US2004235774-A1.
XX 25-NOV-2004.
XX 23-APR-2004; 2004US-00831778.
XX 03-FEB-2000; 2000US-0179991P.

```

```
PR 02-FEB-2001; 2001US-00776479.
XX (BRAT/) BRATZLER R L.
PA (PETE/) PETERSEN D M.
PA (FOUR/) FOURON Y.
XX
XX Bratzler RL, Petersen DM, Fouron Y;
XX WPI; 2004-833006/82.
XX
XX Suppressing allergies, including asthma, rhinitis, urticaria and atopic
XX dermatitis, in a subject, comprises administering a first and second dose
XX of an immunostimulatory nucleic acid.
XX
XX Disclosure; SEQ ID NO 530; 235pp; English.
XX
XX The invention relates to a method of suppressing a symptom of an allergic
XX response in a subject by administering a first and second dose of an
XX immunostimulatory nucleic acid that comprises a nucleotide sequence
XX comprising 5'-cg-3', and where the second dose is administered from 1 day
XX to 8 weeks after the first dose. The methods and compositions of the
XX present invention are useful for the treatment or prevention of asthma
XX and allergy, including rhinitis, urticaria and atopic dermatitis, using
XX an immunostimulatory nucleic acid alone or in combination with other
XX medicaments. They can also be used in preventing bacterial and viral
XX infections. This sequence represents an oligonucleotide used in the
XX method of the invention.
XX
XX Sequence 20 BP; 0 A; 20 C; 0 G; 0 T; 0 U; 0 Other;
SQ
Query Match 0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.1e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 206 GGGGGGGTGGGGTGGGGGGG 225
Db ||||||| ||||| |||||||
1 GGGGGGGGGGGGGGGGGGGG 20
RESULT 138
ADU89847
ID ADU89847 standard; DNA; 20 BP.
AC ADU89847;
XX
XX 10-FEB-2005 (first entry)
XX
XX Allergic response suppressor oligonucleotide #531.
XX
XX ss; antiasthmatic; antiallergic; dermatological; antiinflammatory;
XX antibacterial; virucide; immunoglobulin E antagonist; allergy;
XX immunostimulator; asthma; rhinitis; urticaria; dermatitis;
XX bacterial infection; viral infection.
XX
XX Synthetic.
XX
XX US2004235774-A1.
XX
XX 25-NOV-2004.
XX
XX 23-APR-2004; 2004US-00831778.
XX
XX 03-FEB-2000; 2000US-0179991P.
XX
XX 02-FEB-2001; 2001US-00776479.
XX
XX (BRAT/) BRATZLER R L.
XX (PETE/) PETERSEN D M.
XX (FOUR/) FOURON Y.
XX
XX Bratzler RL, Petersen DM, Fouron Y;
XX WPI; 2004-833006/82.
XX
XX Suppressing allergies, including asthma, rhinitis, urticaria and atopic
XX dermatitis, in a subject, comprises administering a first and second dose
XX of an immunostimulatory nucleic acid.
XX
XX Disclosure; SEQ ID NO 531; 235pp; English.
XX
XX The invention relates to a method of suppressing a symptom of an allergic
XX response in a subject by administering a first and second dose of an
XX immunostimulatory nucleic acid that comprises a nucleotide sequence
XX comprising 5'-cg-3', and where the second dose is administered from 1 day
XX to 8 weeks after the first dose. The methods and compositions of the
XX present invention are useful for the treatment or prevention of asthma
XX and allergy, including rhinitis, urticaria and atopic dermatitis, using
XX an immunostimulatory nucleic acid alone or in combination with other
XX medicaments. They can also be used in preventing bacterial and viral
XX infections. This sequence represents an oligonucleotide used in the
XX method of the invention.
XX
XX Sequence 20 BP; 0 A; 20 C; 0 G; 0 T; 0 U; 0 Other;
SQ
Query Match 0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.1e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 206 GGGGGGGTGGGGTGGGGGGG 225
Db ||||||| ||||| |||||||
1 GGGGGGGGGGGGGGGGGGGG 20
RESULT 139
ADU90127/c
ID ADU90127 standard; DNA; 20 BP.
XX
XX ADU90127;
XX
XX 10-FEB-2005 (first entry)
XX
XX Allergic response suppressor oligonucleotide #811.
XX
XX ss; antiasthmatic; antiallergic; dermatological; antiinflammatory;
XX antibacterial; virucide; immunoglobulin E antagonist; allergy;
XX immunostimulator; asthma; rhinitis; urticaria; dermatitis;
XX bacterial infection; viral infection.
XX
XX Synthetic.
XX
XX US2004235774-A1.
XX
XX 25-NOV-2004.
XX
XX 23-APR-2004; 2004US-00831778.
XX
XX 03-FEB-2000; 2000US-0179991P.
XX
XX 02-FEB-2001; 2001US-00776479.
XX
XX (BRAT/) BRATZLER R L.
XX (PETE/) PETERSEN D M.
XX (FOUR/) FOURON Y.
XX
XX Bratzler RL, Petersen DM, Fouron Y;
XX WPI; 2004-833006/82.
XX
XX Suppressing allergies, including asthma, rhinitis, urticaria and atopic
XX dermatitis, in a subject, comprises administering a first and second dose
XX of an immunostimulatory nucleic acid.
XX
XX Disclosure; SEQ ID NO 811; 235pp; English.
XX
XX The invention relates to a method of suppressing a symptom of an allergic
XX response in a subject by administering a first and second dose of an
XX immunostimulatory nucleic acid that comprises a nucleotide sequence
XX comprising 5'-cg-3', and where the second dose is administered from 1 day
XX to 8 weeks after the first dose. The methods and compositions of the
XX present invention are useful for the treatment or prevention of asthma
XX and allergy, including rhinitis, urticaria and atopic dermatitis, using
XX an immunostimulatory nucleic acid alone or in combination with other
XX medicaments. They can also be used in preventing bacterial and viral
XX infections. This sequence represents an oligonucleotide used in the
XX method of the invention.
XX
XX Sequence 20 BP; 0 A; 20 C; 0 G; 0 T; 0 U; 0 Other;
SQ
```

CC to 8 weeks after the first dose. The methods and compositions of the  
 CC present invention are useful for the treatment or prevention of asthma  
 CC and allergy, including rhinitis, urticaria and atopic dermatitis, using  
 CC an immunostimulatory nucleic acid alone or in combination with other  
 CC medicaments. They can also be used in preventing bacterial and viral  
 CC infections. This sequence represents an oligonucleotide used in the  
 CC method of the invention.  
 XX  
 SQ Sequence 20 BP; 0 A; 20 C; 0 G; 0 T; 0 U; 0 Other;

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTCGGGTGGGGGG 225  
 ||||| ||||| |||||  
 Db 20 GGGGGGGGGGGGGGGGGG 1

RESULT 140  
 ADU90303  
 ID ADU90303 standard; DNA; 20 BP.  
 AC  
 AC ADU90303;  
 XX  
 DT 10-FEB-2005 (first entry)  
 XX  
 DE Allergic response suppressor oligonucleotide #987.  
 XX  
 KW ss; antiasthmatic; antiallergic; dermatological; antiinflammatory;  
 KW antibacterial; virucide; immunoglobulin E antagonist; allergy;  
 KW immunostimulatory; asthma; rhinitis; urticaria; dermatitis;  
 KW bacterial infection; viral infection.  
 XX  
 OS Synthetic.  
 XX  
 PN US2004235774-A1.  
 XX  
 PD 25-NOV-2004.  
 XX  
 PF 23-APR-2004; 2004US-00831778.  
 XX  
 PR 03-FEB-2000; 2000US-0179991P.  
 PR 02-FEB-2001; 2001US-00776479.  
 XX  
 PA (BRAT/) BRATZLER R L.  
 PA (PETE/) PETERSEN D M.  
 PA (FOUR/) FOURON Y.  
 XX  
 PI Bratzler RL, Petersen DM, Fouron Y;  
 XX  
 DR WPI; 2004-833006/82.  
 XX  
 PT Suppressing allergies, including asthma, rhinitis, urticaria and atopic  
 PT dermatitis, in a subject, comprises administering a first and second dose  
 PT of an immunostimulatory nucleic acid.  
 XX  
 PS Disclosure; SEQ ID NO 987; 235pp; English.  
 XX  
 CC The invention relates to a method of suppressing a symptom of an allergic  
 CC response in a subject by administering a first and second dose of an  
 CC immunostimulatory nucleic acid that comprises a nucleotide sequence  
 CC comprising 5'-cg-3', and where the second dose is administered from 1 day  
 CC to 8 weeks after the first dose. The methods and compositions of the  
 CC present invention are useful for the treatment or prevention of asthma  
 CC and allergy, including rhinitis, urticaria and atopic dermatitis, using  
 CC an immunostimulatory nucleic acid alone or in combination with other  
 CC medicaments. They can also be used in preventing bacterial and viral  
 CC infections. This sequence represents an oligonucleotide used in the  
 CC method of the invention.  
 XX  
 SQ Sequence 20 BP; 0 A; 0 C; 20 G; 0 T; 0 U; 0 Other;

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTCGGGTGGGGGG 225  
 ||||| ||||| |||||  
 Db 1 GGGGGGGGGGGGGGGGGG 20

RESULT 141  
 ADX81208/c  
 ID ADX81208 standard; DNA; 20 BP.  
 XX  
 AC ADX81208;  
 XX  
 DT 05-MAY-2005 (first entry)  
 XX  
 DE Human cyclin-dependent kinase 10 AC SNP reverse primer.  
 XX  
 KW melanoma; DNA polymorphism; SNP detection; cytostatic; gene therapy; PCR;  
 KW primer; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2005017176-A2.  
 XX  
 PD 24-FEB-2005.  
 XX  
 PF 05-MAY-2004; 2004WO-US014238.  
 XX  
 PR 23-JUL-2003; 2003US-0489703P.  
 PR 06-NOV-2003; 2003US-00703789.  
 PR 06-NOV-2003; 2003US-00703817.  
 PR 06-NOV-2003; 2003US-00704513.  
 XX  
 PA (SEQU-) SEQUENOM INC.  
 XX  
 PI Roth RB, Nelson MR, Kammerer SM, Braun A, Hoyal-Wrightson CR;  
 XX  
 DR WPI; 2005-182387/19.  
 XX  
 PT Identifying a subject at risk of melanoma by detecting presence or  
 PT absence of a polymorphic variation associated with melanoma, where the  
 PT presence of polymorphic variations is indicative of the subject being at  
 PT risk of melanoma.  
 XX  
 PS Example 7; Page 114; 418pp; English.  
 XX  
 CC The invention relates to a novel method for identifying a subject at risk  
 CC of melanoma. The method comprises detecting the presence or absence of a  
 CC polymorphic variation associated with melanoma, where the presence of the  
 CC one or more polymorphic variations is indicative of the subject being at  
 CC risk of melanoma. The invention further comprises: a method for  
 CC identifying a polymorphic variation associated with melanoma proximal to  
 CC an incident polymorphic variation associated with melanoma; an isolated  
 CC nucleic acid which comprises a portion of or all of a nucleotide sequence  
 CC comprising fully defined 68400-213300 base pairs sequences (SEQ ID NO. 3,  
 CC 4, 5, 6, and/or 7) given in the specification, and comprises one or more  
 CC polymorphic variations; an oligonucleotide comprising a nucleotide  
 CC sequence complementary to a portion of the nucleotide sequence above,  
 CC where the 3' end of the oligonucleotide is adjacent to a polymorphic  
 CC variation; a microarray comprising the isolated nucleic acid linked to a  
 CC solid support; an isolated polypeptide encoded by the isolated nucleic  
 CC acid sequence; genotyping a nucleic acid; a method for identifying a  
 CC candidate molecule that modulates cell proliferation; treating melanoma  
 CC in a subject; and treating melanoma in a subject or preventing melanoma  
 CC in a subject. The methods and sequences have cytostatic activity. The  
 CC polynucleotides may be used in gene therapy. The methods are useful for  
 CC identifying a subject at risk of melanoma, treating melanoma in a  
 CC subject, or preventing melanoma in a subject. This polynucleotide  
 CC sequence represents a primer used in the exemplification of the  
 CC invention.  
 XX

SQ Sequence 20 BP; 5 A; 3 C; 9 G; 3 T; 0 U; 0 Other;  
Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 120 TCACCTCCTGCTCCCTAG 139  
|||||  
Db 20 TCAGCTCTCTCCCTAG 1

RESULT 142  
AEB28252/c  
ID AEB28252 standard; DNA; 20 BP.  
XX  
AC AEB28252;  
XX  
DT 22-SEP-2005 (first entry)  
XX  
DE Oligonucleotide 100C-PTO.  
XX  
cosmetics; pharmaceutical; skin allergy; dermatological;  
KW dermatological disease; antiinflammatory; allergic; aging; eczema;  
KW alopecia; epidermolysis bullosa; graft rejection; periodontal disease;  
KW psoriasis; antipsoriatic; sunburn; vitiligo; inflammation; detergent;  
KW dye; pigment; ss; primer; phosphorothioate; phosphodiester.  
XX Synthetic.  
XX  
FH Key Location/Qualifiers  
FT modified\_base 1..20  
FT /\*tag= a  
FT /mod\_base= OTHER  
FT /note= "phosphorothioate or phosphodiester linkages"  
XX  
PN WO2005063300-A2.  
XX  
PD 14-JUL-2005.  
XX  
PF 14-DEC-2004; 2004WO-EP014195.  
XX  
PR 23-DEC-2003; 2003DE-01061502.  
XX  
PA (PHEN-) PHENION GMBH & CO KG.  
XX  
PI Kippenberger S, Kaufmann R, Bernd A, Bock A;  
XX  
DR WPI; 2005-512612/52.  
XX  
Cosmetic or pharmaceutical composition for treating epithelial covering  
tissue comprises superstructure-forming nucleic acid sequences.  
XX  
PS Disclosure; SEQ ID NO 3; 71pp; German.  
XX  
This invention represents a novel cosmetic or pharmaceutical composition  
for treating epithelial covering tissue which comprises superstructure-  
forming nucleic acid sequences. The composition can also be used in  
fabric softeners, hand-washing products, body and hair care products,  
hair dyes or manual dishwashing products. The superstructures are G  
quadruplexes, frayed wires or i motifs. The sequences are 30-40  
nucleotides long, have five or more C, G or I nucleotides in tandem, no  
CpG motifs, no nonmethylated CG dinucleotides, are polyI, polyC or polyG  
homopolymers and are optionally modified by replacing phosphodiester  
linkages with methylphosphonate, phosphoramidate, phosphorothioate or  
pentopyranoses or 3',5'-carboxylically bridged 2'-deoxyribose  
derivatives. The nucleic acid sequences are contained in liposomes. The  
composition of the invention inhibits the release of IL-8. The  
composition is useful for preventing or treating inflammatory changes to  
epithelial covering tissue, including changes caused by pathogens,  
CC autoimmune reactions, tumor necrosis factor, toxins and irritants,  
CC especially aging processes, psoriasis, atopic eczema, dry skin, alopecia  
areata, vitiligo, bullous diseases, rejection reactions, sunburn and

CC parodontosis. This sequence represents a phosphorothioate or  
CC phosphodiester oligonucleotide used to illustrate the method of the  
CC invention.  
XX  
SQ Sequence 20 BP; 0 A; 20 C; 0 G; 0 T; 0 U; 0 Other;  
Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 206 GCGGGGGTGGGTGGGGG 225  
|||||  
Db 20 GCGGGGGGGGGGGGGG 1  
XX  
RESULT 143  
AEB28253  
ID AEB28253 standard; DNA; 20 BP.  
XX  
AC AEB28253;  
XX  
DT 22-SEP-2005 (first entry)  
XX  
DE Oligonucleotide 100G-PTO.  
XX  
cosmetics; pharmaceutical; skin allergy; dermatological;  
KW dermatological disease; antiinflammatory; allergic; aging; eczema;  
KW alopecia; epidermolysis bullosa; graft rejection; periodontal disease;  
KW psoriasis; antipsoriatic; sunburn; vitiligo; inflammation; detergent;  
KW dye; pigment; ss; primer; phosphorothioate; phosphodiester.  
XX Synthetic.  
XX  
FH Key Location/Qualifiers  
FT modified\_base 1..20  
FT /\*tag= a  
FT /mod\_base= OTHER  
FT /note= "phosphorothioate or phosphodiester linkages"  
XX  
PN WO2005063300-A2.  
XX  
PD 14-JUL-2005.  
XX  
PF 14-DEC-2004; 2004WO-EP014195.  
XX  
PR 23-DEC-2003; 2003DE-01061502.  
XX  
PA (PHEN-) PHENION GMBH & CO KG.  
XX  
PI Kippenberger S, Kaufmann R, Bernd A, Bock A;  
XX  
DR WPI; 2005-512612/52.  
XX  
Cosmetic or pharmaceutical composition for treating epithelial covering  
tissue comprises superstructure-forming nucleic acid sequences.  
XX  
PS Disclosure; SEQ ID NO 4; 71pp; German.  
XX  
This invention represents a novel cosmetic or pharmaceutical composition  
for treating epithelial covering tissue which comprises superstructure-  
forming nucleic acid sequences. The composition can also be used in  
fabric softeners, hand-washing products, body and hair care products,  
hair dyes or manual dishwashing products. The superstructures are G  
quadruplexes, frayed wires or i motifs. The sequences are 30-40  
nucleotides long, have five or more C, G or I nucleotides in tandem, no  
CpG motifs, no nonmethylated CG dinucleotides, are polyI, polyC or polyG  
homopolymers and are optionally modified by replacing phosphodiester  
linkages with methylphosphonate, phosphoramidate, phosphorothioate or  
pentopyranoses or 3',5'-carboxylically bridged 2'-deoxyribose  
derivatives. The nucleic acid sequences are contained in liposomes. The  
composition of the invention inhibits the release of IL-8. The  
composition is useful for preventing or treating inflammatory changes to

CC epithelial covering tissue, including changes caused by pathogens,  
 CC autoimmune reactions, tumor necrosis factor, toxins and irritants,  
 CC especially aging processes, psoriasis, atopic eczema, dry skin, alopecia  
 CC areata, vitiligo, bullous diseases, rejection reactions, sunburn and  
 CC parodontosis. This sequence represents a phosphorothioate or  
 CC phosphodiester oligonucleotide used to illustrate the method of the  
 CC invention.

XX  
 SQ Sequence 20 BP; 0 A; 0 C; 20 G; 0 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 16.8; DB 1; Length 20;  
 Best Local Similarity 90.0%; Pred. No. 1.1e+02;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 206 GGGGGGGTGGGTGGGGGG 225  
 ||||| ||||| ||||| |||||  
 Db 1 GGGGGGGGGGGGGGGGGG 20

RESULT 144  
 AAQ14196  
 ID AAQ14196 standard; DNA; 21 BP.  
 AC AAQ14196;  
 XX  
 DT 02-JAN-1992 (first entry)  
 DE Oligonucleotide probe incorporating disulphide linker.  
 XX  
 KW ss.  
 XX  
 OS Synthetic.  
 XX  
 FH Key Location/Qualifiers  
 FT misc\_feature 8  
 FT /tag= a  
 FT /note= "n = O2-P-O-CH2-CH2-O-CH2-CH2-S-S-CH2-CH2-O- CH2-  
 CH2-O-P-O3"  
 XX  
 PN WO9114696-A.  
 XX  
 PD 03-OCT-1991.  
 XX  
 PF 29-MAR-1990; 90US-00502361.  
 XX  
 PR 29-MAR-1990; 90US-00502361.  
 XX  
 PA (GILE-) GILEAD SCI INC.  
 XX  
 PI Latham JA, Lin KY, Matteucci M;  
 XX  
 DR WPI; 1991-310529/42.  
 XX  
 PT New oligo:nucleotide- transport agent di:sulphide conjugate(s) - for  
 PT inhibiting nucleotide expression in therapy and diagnosis of endogenous  
 PT nucleotide sequences in cells.  
 XX  
 PS Example; Page 37; 67pp; English.

XX The oligonucleotide has a disulphide linker incorporated into the probe  
 CC which acts as a hybridisation-triggered crosslinking agent. This will  
 CC permit novel diagnostic assay modifications such as the use of  
 CC crosslinker to increase probe discrimination and incorporation of a  
 CC denaturing wash step to reduce background. Also carrying out  
 CC hybridisation and crosslinking at or near the melting temperature of the  
 CC hybrid DNA will reduce secondary structure in the target DNA and increase  
 CC probe specificity. See also AAQ14195

XX  
 SQ Sequence 21 BP; 6 A; 7 C; 7 G; 0 T; 0 U; 1 Other;  
 Query Match 0.6%; Score 16.8; DB 1; Length 21;  
 Best Local Similarity 85.7%; Pred. No. 1.2e+02;  
 Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 645 CAGCAGCGGCAGCAGCGGG 665  
 ||||| ||||| ||||| |||||  
 Db 1 CAGCAGCGGCAGCAGCAGCAG 21

RESULT 145  
 AAQ50950  
 ID AAQ50950 standard; DNA; 21 BP.  
 XX  
 AC AAQ50950;  
 XX  
 DT 25-MAR-2003 (revised)  
 DT 17-MAY-1994 (first entry)  
 XX  
 DE Synthetic oligonucleotide used for deprotection analysis.  
 XX  
 KW Deprotection; synthesis; oligonucleotide; rate limiting step;  
 KW deoxyguanosine; ss.  
 XX  
 OS Synthetic.  
 XX  
 PN WO9322329-A1.  
 XX  
 PD 11-NOV-1993.  
 XX  
 PF 09-APR-1993; 93WO-US003386.  
 XX  
 PR 24-APR-1992; 92US-00873915.  
 XX  
 PA (BECI ) BECKMAN INSTR INC.  
 XX  
 PI Reddy PM, Hanna NB;  
 XX  
 DR WPI; 1993-368709/46.  
 XX  
 PT Reagent for rapid deprotection of oligo:nucleotide(s) - and cleavage from  
 PT resin, contains linear alkylamine and opt. branched alkylamine to  
 PT suppress transamination side reaction.  
 XX  
 PS Example 2; Page 22; 58pp; English.

XX Deprotection of protected deoxyguanosine is the rate limiting step during  
 CC deprotection of synthetic oligonucleotides. This sequence was used to  
 CC study the rate of deprotection at a variety of temperatures between 25  
 CC and 80 deg. C. 100% of the nucleotides in this sequence are  
 CC deoxyguanosine. Other 21 mers comprising 25% and 50% deoxyguanosine  
 CC (AAQ50948, AAQ50949) were also used for analysis. The time for  
 CC deprotection at all temperatures was proportional to the amount of  
 CC protected deoxyguanosine in the oligonucleotide (Updated on 25-MAR-2003  
 CC to correct PN field.)

XX  
 SQ Sequence 21 BP; 0 A; 0 C; 21 G; 0 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 16.8; DB 1; Length 21;  
 Best Local Similarity 90.0%; Pred. No. 1.2e+02;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 206 GGGGGGGTGGGTGGGGGG 225  
 ||||| ||||| ||||| |||||  
 Db 1 GGGGGGGGGGGGGGGGGG 20

RESULT 146  
 AAQ82682/c  
 ID AAQ82682 standard; DNA; 21 BP.  
 XX  
 AC AAQ82682;  
 XX  
 DT 25-MAR-2003 (revised)  
 DT 14-SEP-1995 (first entry)  
 XX  
 DE Chromosome 11 (locus NGK2) STS primer NGK2-Z.

```

XX sequence sampled mapping; genomic analysis; complex genome mapping;
KW cosmid library; chromosome 11; sequence tagged site; STS analysis; ss.
XX Synthetic.
OS WO9429486-A1.
PN
XX
XX WO9429486-A1.
PD
XX 22-DEC-1994.
XX
XX 15-JUN-1994; 94WO-US006810.
XX
XX 15-JUN-1993; 93US-00078471.
PR
XX 07-SEP-1993; 93US-00117952.
XX
XX (SALK ) SALK INST BIOLOGICAL STUDIES.
XX
XX Evans GA, Smith MW;
XX
XX WPI; 1995-036508/05.
XX
XX Sequencing complex genomes, present as fragments in a cosmid library - by
PT sequencing end-specific nucleotides of each clone then correlating with
PT spatial relationship of cosmid, esp. for mammalian chromosomes.
XX
XX Example 4; Page 93; 128pp; English.
XX
XX Sequences were determined from the ends of chromosome 11-specific cosmids
CC by automated sequencing without intermediate subcloning. A sample of 371
CC DNA sequence fragments were determined and of these, 277 were suitable
CC for STS primer prediction by computer analysis (using the "Primer"
CC program available from E.Lander, MIT). The STSs and cosmids were mapped
CC by in situ hybridisation, somatic cell hybrid analysis or both. Using
CC this method, 370 STSs specific for human chromosome 11 were generated and
CC most of them were regionally mapped. This procedure illustrates a novel
CC method for sequencing complex genomes, designated "sequence sampled
CC mapping". The sequence sampled mapping method is useful for the
CC completion of high density sequence-based maps, and ultimately, for the
CC complete sequencing of genomic DNA directly from cosmid clones. See
CC AAQ82001-Q82706 and AAQ91325-Q91358 for STS primers. (Updated on 25-MAR-
CC 2003 to correct PN field.)
XX
XX Sequence 21 BP; 5 A; 7 C; 4 G; 5 T; 0 U; 0 Other;
SQ
Query Match 0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1711 CTTGGCTATGGGACATGTA 1730
DB 20 CTGGGCTATGGAGACATGTA 1

RESULT 147
AAZ26171
ID AAZ26171 standard; DNA; 21 BP.
XX
XX AAZ26171;
AC
XX 30-NOV-1999 (first entry)
DT
XX Human polymorphic region 360.
DE
XX Polymorphism; human; inhibitor; cancer; treatment; cell growth; LOH;
KW allele viability; loss of heterozygosity; precancerous condition; ASI;
KW allele specific inhibitor; somatic cell; diagnosis; prevention;
KW atherosclerotic plaque; premalignant metaplastic lesion; endometriosis;
KW dysplastic lesion; benign tumour; polycystic kidney disease; transplant;
KW graft versus host disease; malignant cell removal; bone marrow; ss.
XX
XX Homo sapiens.
OS
XX WO9841648-A2.
PN

```

```

XX 24-SEP-1998.
PD
XX 19-MAR-1998; 98WO-US005419.
XX
XX 20-MAR-1997; 97US-0041057P.
XX
XX (VARI-) VARIAGENICS INC.
XX
XX Housman D, Ledley FD, Stanton VP;
XX
XX WPI; 1998-521232/44.
XX
XX Identifying target genes for allele-specific drugs - used for diagnosis,
PT prevention and treatment of, e.g. cancers, atherosclerotic plaque,
PT dysplastic lesions, endometriosis or graft versus host disease.
XX
XX Disclosure; Fig 7; 605pp; English.
XX
XX This invention describes a novel method for identifying an inhibitor
CC potentially useful for treatment of cancer, where the inhibitor is active
CC on a gene vital for cell growth or viability, and where the gene is
CC subject to loss of heterozygosity (LOH) in a cancer. The inhibitor is
CC used for preventing the development of cancer in a patient having a
CC precancerous condition, by administering to the patient a first allele
CC specific inhibitor (ASI) targeted to an allele of a first essential gene
CC present in cells of the precancerous condition, where the normal somatic
CC cells of the patient are heterozygous for the first gene, the inhibitor
CC is active on at least one but less than all allelic forms of the gene
CC present in a population and targets only one allelic form present in the
CC normal somatic cells, and the first gene. The products and methods can be
CC used in the diagnosis, prevention and treatment of LOH disorders, e.g.
CC cancers, atherosclerotic plaques, premalignant metaplastic or dysplastic
CC lesions, benign tumours, endometriosis, polycystic kidney disease, and
CC graft versus host disease. The method can also be used to remove
CC malignant cells from bone marrow transplants. AAZ25812-226825 represent
CC human polymorphic sites described in the method of the invention
XX
XX Sequence 21 BP; 6 A; 5 C; 10 G; 0 T; 0 U; 0 Other;
SQ
Query Match 0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCGAGCGCGC 663
DB 2 GCAGCAGCGGAGGAGCGCGC 21

RESULT 148
AAZ44349
ID AAZ44349 standard; DNA; 21 BP.
XX
XX AAZ44349;
AC
XX 04-APR-2000 (first entry)
DT
XX Protein kinase inhibiting primer #11.
DE
XX Antimicrobial; cytostatic; immunosuppressive; protein kinase;
KW prophylactic; therapy; treatment; cancer; autoimmune disease;
KW pathogenic microorganism; primer; ss.
XX
XX Unidentified.
OS
XX US5998596-A.
PN
XX 07-DEC-1999.
PD
XX 04-APR-1995; 95US-00416214.
XX
XX 04-APR-1995; 95US-00416214.
XX
XX

```

PA (USSH ) US DEPT HEALTH & HUMAN SERVICES.  
 XX Bergan R, Neckers L;  
 XX WPI; 2000-104623/09.  
 DR  
 XX  
 XX Oligonucleotides inhibiting protein kinase, useful for treating diseases  
 PT such as cancer and autoimmune disease.  
 PT  
 XX  
 PS Example 3; Col 27-28; 26pp; English.  
 XX  
 XX This invention describes novel purified aptameric oligonucleotides which  
 CC have antimicrobial, cytostatic and immunosuppressive activity. The  
 CC oligonucleotides are useful for binding to and preventing or inhibiting  
 CC the biological function of a protein kinase or a target molecule and for  
 CC detecting the presence or absence of a target molecule in biological  
 CC samples. The oligonucleotides are also useful for prophylactic and  
 CC therapeutic treatment of diseases such as cancer, autoimmune diseases and  
 CC diseases caused by pathogenic microorganisms. This sequence represents a  
 CC primer used in the method of the invention  
 XX  
 SQ Sequence 21 BP; 0 A; 7 C; 14 G; 0 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 16.8; DB 1; Length 21;  
 Best Local Similarity 90.0%; Pred. No. 1.2e+02;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 652 GGCAGCGCGCGCGCGCGG 671  
 Db 1 GCGCGCGCGCGCGCGCGG 20  
 RESULT 149  
 AAZ99602  
 ID AAZ99602 standard; DNA; 21 BP.  
 XX  
 AC AAZ99602;  
 XX  
 DT 03-JUL-2000 (first entry)  
 DE  
 DE 5' PCR primer used to amplify site-1 protease cDNA sequences.  
 XX  
 XX Modulator; sterol-regulated Site-1 protease; cholesterol;  
 KW sterol regulatory element binding protein; SREBP; lipid synthesis;  
 KW fatty acid biosynthesis; site-1 protease; protease inhibitor;  
 KW serum cholesterol; hypercholesterolemia; lipid metabolism; PCR primer;  
 KW ss.  
 XX  
 OS Cricetulus sp.  
 XX  
 XX WO200009677-A2.  
 FN  
 XX  
 PD 24-FEB-2000.  
 XX  
 PF 13-AUG-1999; 99WO-US018544.  
 XX  
 XX 14-AUG-1998; 98US-0096571P.  
 PR 23-JUL-1999; 99US-00360237.  
 XX  
 XX (TEXA ) UNIV TEXAS SYSTEM.  
 PA (BROW/) BROWN M S.  
 PA (CHEN/) CHENG D.  
 PA (ESPE/) ESPENSHADE P J.  
 PA (GOLD/) GOLDSTEIN J L.  
 PA (RAWS/) RAWSON R B.  
 PA (SAKA/) SAKAI J.  
 XX  
 XX Brown MS, Cheng D, Espenshade PJ, Goldstein JL, Rawson RB;  
 PI Sakai J;  
 XX  
 DR WPI; 2000-224327/19.  
 XX  
 PT Novel assay for identifying modulators of sterol-regulated Site-1

PT protease useful for the treatment of hypercholesterolemia, involves  
 PT identifying an agent capable of down regulating Site-1 protease activity.  
 XX  
 PS Example 4; Page 83; 172pp; English.  
 XX  
 CC The specification describes a method for identifying modulators of a  
 CC sterol-regulated Site-1 protease. Site-1 protease cleaves sterol  
 CC regulatory element binding proteins (SREBPs) in the endoplasmic  
 CC reticulum, initiating release from membranes and activating lipid  
 CC synthesis. The modulators therefore also modulate cholesterol and fatty  
 CC acid biosynthesis. The method comprises selecting an agent capable of  
 CC down regulating Site-1 protease and formulating a composition comprising  
 CC the agent. The site-1 protease inhibitors are useful for treating a  
 CC patient for elevated serum cholesterol. Diseases treated include  
 CC hypercholesterolemia and other lipid metabolism associated conditions.  
 CC PCR primers AAZ99602-03 were used to amplify cDNA encoding site-1  
 CC protease  
 XX  
 SQ Sequence 21 BP; 6 A; 6 C; 6 G; 3 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 16.8; DB 1; Length 21;  
 Best Local Similarity 90.0%; Pred. No. 1.2e+02;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 2149 AACAAAGAGCGAGCTGCCTG 2168  
 Db 1 ACCAAGAGCGAGCTTCCTG 20  
 RESULT 150  
 AAZ99630  
 ID AAZ99630 standard; DNA; 21 BP.  
 XX  
 AC AAZ99630;  
 XX  
 DT 12-JUL-2000 (first entry)  
 DE  
 DE Prototypic blocking oligonucleotide PolyG.  
 XX  
 KW Prototypic blocking oligonucleotide; G-motif oligonucleotide; vaccine;  
 KW antigen presenting cell activation; natural killer cell; septic shock;  
 KW cytotoxic T-lymphocyte; inflammation; autoimmune disease;  
 KW rheumatoid arthritis; Crohn's disease; sarcoidosis; multiple sclerosis;  
 KW Kawasaki syndrome; graft-versus-host disease; transplant rejection;  
 KW helper T cell response 1-mediated disease; Lyme arthritis;  
 KW Streptococcal induced arthritis; chronic inflammatory bowel disease;  
 KW psoriasis vulgaris; experimental allergic encephalomyelitis;  
 KW insulin-dependent diabetes mellitus; bacterial infection;  
 KW parasitic infection; Leishmaniasis; Toxoplasmosis; viral infection;  
 KW spontaneous abortion; tumour; ss.  
 XX  
 OS Synthetic.  
 XX  
 XX WO200014217-A2.  
 FN  
 XX  
 PD 16-MAR-2000.  
 XX  
 PF 03-SEP-1999; 99WO-EP006502.  
 XX  
 XX 03-SEP-1998; 98EP-00116652.  
 PR (CPGI-) CPG IMMUNOPHARMACEUTICALS GMBH.  
 PA Wagner H, Lipford GB, Heeg K;  
 PI  
 XX WPI; 2000-256970/22.  
 DR  
 XX  
 XX Compositions comprising G-motif oligonucleotides useful for treating e.g.  
 PT septic shock, rheumatoid arthritis, diabetes and human immunodeficiency  
 PT virus infections.  
 XX  
 XX Disclosure; Page 33; 75pp; English.  
 PS  
 XX

CC The present sequence represents a prototypic blocking oligonucleotide,  
 CC which is used in the course of the invention. The specification describes  
 CC compositions comprising G-motif oligonucleotides. The G-motif  
 CC oligonucleotides inhibit activation of antigen presenting cells by  
 CC inhibiting the uptake of DNA by a cell, by stimulating natural killer  
 CC cells, or by co-stimulating cytotoxic T-lymphocytes. The G-motif  
 CC oligonucleotides may be used for the productions of vaccines for treating  
 CC septic shock, inflammation, autoimmune diseases (e.g. rheumatoid  
 CC arthritis, Crohn's disease, sarcoidosis, multiple sclerosis, Kawasaki  
 CC syndrome, graft-versus-host disease and transplant rejection), helper T  
 CC cell response 1-mediated diseases (e.g. Streptococcal induced arthritis,  
 CC Lyme arthritis, chronic inflammatory bowel disease, psoriasis vulgaris,  
 CC experimental allergic encephalomyelitis, and insulin-dependent diabetes  
 CC mellitus), bacterial infections, parasitic infections (e.g. Leishmaniasis  
 CC or Toxoplasmosis), viral infections (e.g. Cytomegalovirus and human  
 CC immunodeficiency virus (HIV)-infections), spontaneous abortions and  
 CC tumours. They may also be used to induce proliferation of bone marrow  
 CC cells, especially macrophage precursor cells

SQ Sequence 21 BP; 0 A; 0 C; 21 G; 0 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 16.8; DB 1; Length 21;  
 Best Local Similarity 90.0%; Pred. No. 1.2e+02;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGGGG 225  
 DB 1 GGGGGGGGGGGGGGGGGG 20  
 ||||| ||||| ||||| ||||| |||||

RESULT 151  
 ID ABK87618/c  
 AC ABK87618;  
 XX  
 XX 24-SEP-2002 (first entry)  
 XX  
 DE MALDI-TOF-MS analysis method associated oligonucleotide #8.  
 XX  
 KW Matrix-assisted laser desorption/ionisation time-of-flight;  
 KW mass spectrometry; MALDI-TOF-MS; sequencing; polymorphism; ds.  
 XX  
 OS Synthetic.  
 XX  
 FH Key Location/Qualifiers  
 FT modified\_base 1  
 FT /\*tag= a  
 FT /note= "2'-fluoro label"  
 XX  
 PN WO200246468-A2.  
 XX  
 PD 13-JUN-2002.  
 XX  
 PF 06-DEC-2001; 2001WO-JP010689.  
 XX  
 PR 08-DEC-2000; 2000US-0251855P.  
 XX  
 XX (RIKE ) RIKEN KK.  
 XX  
 XX Hayaahizaki Y, Ono T;  
 XX WPI; 2002-547776/58.  
 DR  
 XX Matrix-assisted laser desorption/ionization time-of-flight mass  
 PT spectrometry analysis and/or sequencing useful for determining DNA  
 PT nucleotide sequence and for determining polymorphisms.  
 XX  
 XX Example; Page 17; 36pp; English.  
 PS  
 XX The present invention relates to a new method of matrix-assisted laser  
 CC desorption/ionisation time-of-flight mass spectrometry (MALDI-TOF-MS)  
 CC analysis and/or sequencing of oligoribonucleotides. The method involves

CC using a modified ribonucleotide which is alpha-phosphorothioated and  
 CC having an electronegative substituent or arabino group at position 2' of  
 CC the ribose, and as nitrogenous base adenine, guanine, cytosine, uracil  
 CC and/or its derivatives. The method of the invention is useful for  
 CC determining the DNA nucleotide sequence and polymorphisms using MALDI-TOF  
 CC MS. The invention is also useful for analysing and/or sequencing a DNA  
 CC template or an RNA transcription product and/or for determining  
 CC polymorphisms by MALDI-TOF-MS. The present nucleic acid sequence  
 CC represents one of a collection (ABK87611-ABK87622) of MALDI-TOF-MS  
 CC analysis method associated oligonucleotides that were used in the methods  
 CC of the invention

SQ Sequence 21 BP; 0 A; 20 C; 0 G; 1 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 16.8; DB 1; Length 21;  
 Best Local Similarity 90.0%; Pred. No. 1.2e+02;  
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGGGG 225  
 DB 20 GGGGGGGGGGGGGGGGGG 1  
 ||||| ||||| ||||| ||||| |||||

RESULT 152  
 ID ABK99279/c  
 AC ABK99279 standard; RNA; 21 BP.  
 XX  
 AC ABK99279;  
 XX  
 XX 21-OCT-2002 (first entry)  
 XX  
 DE Hepatitis C virus (HCV) NS5B replicase RNA synthesis template #9.  
 XX  
 KW Hepatitis C virus; HCV; NS5B replicase; ss; RNA polymerase.  
 XX  
 OS Synthetic.  
 XX  
 PN US2002064771-A1.  
 XX  
 PD 30-MAY-2002.  
 XX  
 PF 06-APR-2001; 2001US-00828034.  
 XX  
 PR 07-APR-2000; 2000US-0195852P.  
 XX  
 XX (ZHON/) ZHONG W.  
 PA (HONG/) HONG Z.  
 PA (FERR/) FERRARI E.  
 XX  
 PI Zhong W, Hong Z, Ferrari E;  
 XX  
 XX WPI; 2002-582330/62.  
 DR  
 XX  
 PT Novel replicase complex comprising hepatitis C virus NS5B replicase, a 3  
 PT nucleotide-long template to which a 2 nucleotide-long primer is annealed,  
 PT and template and primer which do not form a stable duplex in the absence  
 PT of HCV NS5B.  
 XX  
 XX Example; Page 6; 17pp; English.  
 PS  
 XX The invention relates to a replicase complex comprising a hepatitis C  
 CC virus (HCV) NS5B replicase protein, a linear nucleic acid template and a  
 CC complementary nucleic acid primer which is annealed to the 3' terminus of  
 CC the template, where the template is at least three nucleotides and the  
 CC primer is two or three nucleotides, and the template and primer do not  
 CC form a stable duplex in solution in the absence of the HCV NS5B protein.  
 CC The complex is useful for detecting HCV replicase activity and permits  
 CC establishment of sensitive RNA-dependent RNA polymerase assays to screen  
 CC and evaluate antiviral inhibitors and to improve the specificity and  
 CC efficacy of the inhibitors. The complex is also useful in the development  
 CC of a reliable system for determining kinetic and thermodynamic constants  
 CC of HCV NS5B-catalysed nucleotide incorporation and investigation of  
 CC mechanistic inhibitors for mis-incorporation or chain termination.





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PR 18-APR-2003; 2003US-0463716P.
PR 18-APR-2003; 2003US-0463732P.
PR 02-MAY-2003; 2003US-0467199P.
PR 02-MAY-2003; 2003US-0467201P.
PR 02-MAY-2003; 2003US-0467203P.
PR 02-MAY-2003; 2003US-0467230P.
PR 19-MAY-2003; 2003US-0471306P.
PR 19-MAY-2003; 2003US-0471336P.
PR 22-MAY-2003; 2003US-0472420P.
PR 22-MAY-2003; 2003US-0472430P.
PR 09-JUN-2003; 2003US-0476609P.
PR 09-JUN-2003; 2003US-0476641P.
PR 08-JUL-2003; 2003US-0485218P.
PR 08-JUL-2003; 2003US-0485223P.
PR 08-JUL-2003; 2003US-0485224P.
PR 08-JUL-2003; 2003US-0485325P.
PR 14-JUL-2003; 2003US-0486446P.
PR 14-JUL-2003; 2003US-0486480P.
PR 15-JUL-2003; 2003US-0486891P.
PR 15-JUL-2003; 2003US-0486960P.
PR 08-AUG-2003; 2003US-0493341P.
PR 08-AUG-2003; 2003US-0493370P.
PR 08-AUG-2003; 2003US-0493573P.
PR 08-AUG-2003; 2003US-0493577P.
XX
XX (FIVE-) FIVE PRIME THERAPEUTICS INC.
XX
XX Williams LT, Chu K, Lee E, Hestir K, Beaurang PA, Behrens D;
PI Halenbeck RF, Huang MM, Kothakota S, Haishan L, Linnemann T;
PI Pierce K, Wang Y, Wong JGP, Wu G, Zhang H;
XX
XX WPI; 2004-348438/32.
XX
XX New nucleic acid molecule for diagnosing, preventing or treating diseases
PT such as proliferative (e.g. cancer), inflammatory, immune, metabolic,
PT genetic, bacterial and viral diseases.
XX
XX Claim 1; SEQ ID NO 1143; 428pp; English.
XX
XX The present invention relates to an isolated nucleic acid molecule
CC encoding a polypeptide which is believed to be cytostatic,
CC antiinflammatory, immunosuppressive, antibacterial and virucidal. The
CC composition and methods are useful for diagnosing, preventing and
CC treating diseases such as proliferative (e.g. cancer), inflammatory,
CC immune, metabolic, genetic, bacterial and viral diseases. The present
CC sequence represents a human secreted protein encoding sequence. The
CC present sequence is available on WIPWEB and is not in the specification.
XX
XX Sequence 21 BP; 1 A; 13 C; 0 G; 7 T; 0 U; 0 Other;
SQ
Query Match 0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 285 CCACCACTCTCTCTCTCTCTC 304
DB 1 CCTCTCTCTCTCTCTCTCTC 20
RESULT 155
ADU87455
ID ADU87455 standard; RNA; 21 BP.
XX
XX ADU87455;
XX
XX 10-FEB-2005 (first entry)
XX
XX Huntington gene CAG repeat, siRNA sense strand.
DE
XX
XX Small interfering RNA; siRNA; RNA interference; gene silencing;
KW Huntington's chorea; gene expression; CAG repeat; anticonvulsant;
KW nootropic; ss.
XX
```

```
OS Homo sapiens.
XX
XX WO2004101787-A1.
XX
XX 25-NOV-2004.
XX
XX 30-APR-2004; 2004WO-JP006360.
XX
XX 14-MAY-2003; 2003JP-00136477.
XX
XX (NISC-) JAPAN SCI & TECHNOLOGY AGENCY.
XX
XX Kanazawa I, Liu W, Wang Y, Wada K, Goto J, Murata M;
XX
XX WPI; 2004-834008/82.
XX
XX Small interfering double-stranded RNA which suppresses expression of
PT Huntington gene and having homologous sequence to Huntington mRNA
PT transcribed from specific base sequence of gene, useful for treating
PT Huntington's disease.
XX
XX Example 1; SEQ ID NO 7; 45pp; Japanese.
XX
XX The invention relates to a small interfering double-stranded RNA (siRNA)
CC with a sense and antisense strand, that is homologous to Huntington mRNA,
CC and capable of targeting Huntington mRNA to suppress the expression of
CC the Huntington gene. Also disclosed is the method for inhibiting
CC Huntington gene expression using the siRNA described above, and a drug
CC for preventing and/or treating Huntington's disease. The siRNA is
CC targeted to a specific mRNA sequence located in a region in the upstream
CC vicinity of the CAG repeat of exon 1 of the Huntington gene. The siRNA
CC has sense and antisense strands which are synthetically manufactured or
CC produced using gene recombinant techniques. The sense and antisense
CC strands produced using gene recombinant techniques are integrated into an
CC expression vector as DNA which transfers the RNA to a host cell. The
CC siRNA specifically and efficiently suppresses the expression of the
CC Huntington gene. This sequence represents a sense strand of a siRNA of
CC the invention.
XX
XX Sequence 21 BP; 7 A; 7 C; 7 G; 0 T; 0 U; 0 Other;
SQ
Query Match 0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 644 GCAGCAGCGCGCAGCAGCGCGC 663
DB 1 GCAGCAGCAGCAGCAGCAGC 20
RESULT 156
ADV96476/C
ID ADV96476 standard; DNA; 21 BP.
XX
XX ADV96476;
XX
XX 07-APR-2005 (first entry)
XX
XX Variant 4b oligonucleotide for detection of CGG repeats.
DE
XX
XX Microbial typing; genetic marker; DNA typing; diagnosis; repetitive DNA;
KW DNA ligation; luminescence; Fragile X syndrome; Huntingtons chorea;
KW dystrophy; ataxia; SNP detection; genetic disorder; ss;
KW variable tandem repeat polymorphism.
XX
XX Homo sapiens.
XX
XX WO2005003386-A2.
XX
XX 13-JAN-2005.
XX
XX 30-JUN-2004; 2004WO-EP007090.
XX
```

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PR 30-JUN-2003; 2003SE-00001951.
PR 30-JUN-2003; 2003US-0481043P.
PR 01-SEP-2003; 2003US-0481319P.
XX
XX (BIOT-) BIOTAGE AB.
XX
XX Tooke N, Ekstroem B;
XX
XX WPI; 2005-101504/11.
XX
XX Determining the presence of genetic element(s), e.g. nucleotide
XX repeat(s), or marker(s) for microbial typing, in a nucleic acid sample,
XX useful in diagnostic methods, by performing a ligation reaction and
XX detecting a ligation by-product.
XX
XX Disclosure; SEQ ID NO 8; 53pp; English.
XX
XX The present invention relates to estimating the number of nucleotide
XX repeats and determining the presence of other genetic element(s), such as
XX marker(s) for microbial typing, by ligating the oligonucleotide(s)
XX annealed to the nucleic acid sample to each other using a ligase enzyme
XX and detecting a ligation-by-product to determine whether a ligation
XX reaction has occurred. Specifically, analyzing the number of repeats in a
XX sample comprises providing a nucleic acid sample potentially comprising a
XX repeat; providing oligonucleotide(s) complementary to the repeat;
XX annealing the oligonucleotide(s); ligating the oligonucleotide(s)
XX annealed to the nucleic acid sample to each other using a ligase enzyme;
XX converting a ligation by-product into ATP; and detecting the ATP by a
XX luciferase-based assay to determine whether a ligation reaction has
XX occurred. One of the oligonucleotides is adapted to anneal immediately
XX outside the repeated sequence. The oligonucleotide employed is a mono-,
XX di- or multimer of the repeat in itself. The oligonucleotides are
XX complementary to, but that are out of phase with, the repeat. Unannealed
XX oligonucleotides are removed after the detection by using an exonuclease,
XX and are inactivated after the detection by using a phosphatase.
XX Oligonucleotides are complementary to a genetic region, optionally with
XX an AdoPP5' modification, that is informative for identification of
XX microbial species, from the following groups: 16S rRNA gene, 23S rRNA
XX gene, groEL, gyrB, rpoB, rnpB and groEL, microsatellite and
XX minisatellite, VNTRs, the nuclear ribosomal DNA (rDNA) array - small-
XX subunit (SSU) (18S-like), large-subunit (LSU) (23S, 26S, or 28S-like),
XX 5.8S rRNA genes, and internal transcribed ribosomal DNA (rDNA) spacers
XX (ITS1 and ITS2). The method is useful in diagnosing dentatorubral
XX pallidolysian atrophy (DRPLA), Fragile X syndrome, Fragile site FRAXE,
XX Huntington's disease, Kennedy's disease, Machado-Joseph disease, Myotonic
XX dystrophy, Friedrich's ataxia, and spinocerebellar ataxia. The present
XX sequence is a variant 4b oligonucleotide for detection of CGG repeats
XX useful for detection of fragile X syndrome.
XX
XX SQ Sequence 21 BP; 0 A; 14 C; 7 G; 0 T; 0 U; 0 Other;
XX
XX Query Match 0.6%; Score 16.8; DB 1; Length 21;
XX Best Local Similarity 90.0%; Pred No. 1.2e+02;
XX Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX Qy 652 GCGACGCGCGCGCGCGCGG 671
XX ||||| ||||| |||||
XX Db 21 GCGCGCGCGCGCGCGCGCGG 2
XX
XX RESULT 157
XX ADW24473
XX ID ADW24473 standard; DNA; 21 BP.
XX
XX AC ADW24473;
XX
XX XX 10-MAR-2005 (first entry)
XX
XX DE Nucleotide-angiotensin conjugated element, seq id 13.
XX
XX KW Ribosomal RNA; rRNA synthesis; cancer; tumor; angiotensin; ABE; ds.
XX
XX OS Unidentified.

```

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XX CN1502629-A.
XX
XX PD 09-JUN-2004.
XX
XX PF 27-NOV-2002; 2002CN-00150729.
XX
XX PR 27-NOV-2002; 2002CN-00150729.
XX
XX PA (SHAN-) SHANGHAI FUYUAN BIOCHEMICAL MEDICINE SCI.
XX
XX PI Xu Z, Hu G;
XX
XX DR WPI; 2004-626605/61.
XX
XX PT Anti-angiogenesis and anti-cancer function of angiogenin combined with
XX nucleotide.
XX
XX PS Disclosure; SEQ ID NO 13; 27pp; Chinese.
XX
XX The present invention provides a nucleotide-angiotensin conjugated element
XX (ABE) for inhibiting rRNA synthesis induced by angiotensin. The length of
XX the described oligonucleotide is 10-150 base pairs, and its C+T content
XX is 80-100 % of all the oligonucleotides, and it contains 5-30 continuous
XX CT repetitive units. The experiments show that the specific combination
XX of ABE and angiotensin can inhibit the synthesis of rRNA, and the animal
XX experiments also show that ABE can inhibit the growth of human tumor in a
XX mouse. The current sequence represents an oligonucleotide of the
XX invention.
XX
XX SQ Sequence 21 BP; 0 A; 0 C; 21 G; 0 T; 0 U; 0 Other;
XX
XX Query Match 0.6%; Score 16.8; DB 1; Length 21;
XX Best Local Similarity 90.0%; Pred No. 1.2e+02;
XX Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX Qy 206 GCGGGGGTGGGGTGGGGGGG 225
XX ||||| ||||| |||||
XX Db 1 GCGGGGGGGGGGGGGGGGGGG 20
XX
XX RESULT 158
XX AAD36186/C
XX ID AAD36186 standard; DNA; 18 BP.
XX
XX AC AAD36186;
XX
XX DT 09-AUG-2002 (first entry)
XX
XX DE Human Smad6 antisense oligonucleotide, ISIS #28554.
XX
XX KW Human; Smad6 protein; antisense; cardiovascular disease; infection;
XX inflammation; cancer; therapy; phosphorothioate backbone; ss.
XX
XX OS Homo sapiens.
XX
XX OS Synthetic.
XX
XX FH Key Location/Qualifiers
XX modified_base 1..18
XX /*tag= a
XX /mod_base= OTHER
XX /note= "OTHER = Phosphorothioate backbone"
XX
XX FT modified_base 1..4
XX /*tag= b
XX /note= "2'methoxyethyl nucleotides"
XX
XX FT modified_base 1..2
XX /*tag= d
XX /mod_base= m5c
XX
XX FT modified_base 4..5
XX /*tag= e
XX /mod_base= m5c
XX
XX FT modified_base 7..8
XX /*tag= f

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```
FT modified_base /mod_base= m5c
FT 10..11
FT *tag= g
FT /mod_base= m5c
FT modified_base 13..14
FT *tag= h
FT /mod_base= m5c
FT modified_base 15..18
FT *tag= c
FT /note= "2'methoxyethyl nucleotides"
FT 16
FT *tag= i
FT /mod_base= m5c
XX WO200228878-A1.
XX 11-APR-2002.
XX 01-OCT-2001; 2001WO-US030645.
XX 04-OCT-2000; 2000US-00679298.
XX (ISIS-) ISIS PHARM INC.
XX Monia BP, Cowseert LM;
XX WPI; 2002-394345/42.
XX Oligonucleotides, useful for the modulation of Smad6 expression in the
XX treatment or prophylaxis of e.g. cardiovascular disease, are targeted to
XX nucleic acid molecule encoding Smad6.
XX Claim 3; Page 90; 110pp; English.
XX The invention relates to an antisense oligonucleotide targetted to a
XX nucleic acid molecule encoding human Smad6 protein, which specifically
XX hybridises with the nucleic acid and inhibits its expression. Antisense
XX compounds of the invention are used for inhibiting the expression of
XX Smad6 in cells and tissues in the treatment of a disease or condition
XX associated with Smad6 such as cardiovascular disease, cancer, infection
XX and inflammation. They are also useful in the diagnostics, as research
XX reagents, in kits and in antisense therapy. The present sequence is an
XX antisense oligonucleotide targetted to human Smad6
XX Sequence 18 BP; 1 A; 11 C; 5 G; 1 T; 0 U; 0 Other;
SQ Query Match 0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. NO. 1.1e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 657 CAGCGCGCGCGCGCGGG 674
Db 18 CAGCGCGCGCGCGGTG 1
RESULT 159
ABQ94341/C
ID ABQ94341 standard; DNA; 19 BP.
XX ABQ94341;
XX 01-NOV-2002 (first entry)
DE Human BNO1 gene exon 6 primer 2.
XX Human; BNO1; F-box; FBXO; chromosome 16q24.3; SCF ubiquitin-E3 ligase;
KW protein ubiquitination; proteasome targeting; breast; prostate; liver;
KW ovarian; immune disease; inflammatory disease; AIDS;
KW acquired immunodeficiency syndrome; asthma; Crohn's disease;
KW multiple sclerosis; neurological disorder; Parkinson's disease;
KW Alzheimer's disease; cytostatic; immunomodulator; neuroprotective;
KW gene therapy; diagnosis; prognosis; mutation analysis; SSCP;
KW single-strand conformation polymorphism; PCR; primer; ss.
```

```
XX Homo sapiens.
XX Key Location/Qualifiers
FH modified_base 1 /*tag= a
FT /mod_base= OTHER
FT /note= "Labelled with HEX"
XX WO200261081-A1.
XX 08-AUG-2002.
XX 31-JAN-2002; 2002WO-AU000096.
XX 31-JAN-2001; 2001AU-00002783.
XX (BION-) BIONOMICS LTD.
XX Callen DF, Powell JA, Kremmidiotis G, Gardner AE, Crawford J;
XX Bais AJ, Kochetkova M;
XX WPI; 2002-619250/66.
XX New gene (BNO1) mapping to chromosome 16q24.3, useful in gene therapy,
XX e.g. for diagnosing or treating cancers (e.g. lymphoma),
XX immune/inflammatory diseases (e.g. AIDS) or neurological disorders (e.g.
XX Parkinson's disease).
XX Example 8; Page 63; 85pp; English.
XX The invention relates to the human and murine BNO1 proteins and nucleic
XX acids encoding them. The BNO1 protein is a member of the FBXO class of F-
XX box proteins, containing an F-box motif but no other known protein-
XX interaction domains. Proteins which contain F-boxes are the substrate
XX recognition components of SCF ubiquitin-E3 ligases, which are responsible
XX for ubiquitinating proteins, thereby targeting them for degradation in
XX the proteasome. In addition, BNO1 is able to interact with Skp1, an
XX essential component of SCF ubiquitin-E3 ligases, suggesting that it plays
XX a role in the ubiquitin-proteasome degradation system that is involved in
XX the regulation of many proteins, particularly those involved in important
XX cellular processes such as cell cycle regulation. The human BNO1 gene
XX maps to chromosome 16q24.3, and is expressed as two different isoforms.
XX Isoform 1 consists of 539 amino acids and is encoded by an open reading
XX frame (ORF) of 1617 bp, while the longer isoform 2 consists of 568 amino
XX acids encoded by an ORF of 1704 bp. The mRNAs encoding the 2 human BNO1
XX isoforms are the product of differential splicing: both comprise exons 1-
XX 9, but the isoform 2 mRNA additionally comprises exon 2.5. Loss of
XX heterozygosity (LOH) of the long arm of chromosome 16, in which the human
XX BNO1 gene is situated, is implicated in breast and prostate cancer, and
XX BNO1 expression is also downregulated in these cancers. BNO1 nucleic
XX acids, proteins and compounds which modulate BNO1 activity or expression
XX may be used for treating disorders associated with altered BNO1 activity
XX or expression. Such disorders include cancers (e.g., breast, prostate,
XX liver and ovarian cancers), immune/inflammatory diseases (e.g., AIDS
XX (acquired immunodeficiency syndrome), asthma, Crohn's disease or multiple
XX sclerosis) or neurological disorders (e.g., Parkinson's disease or
XX Alzheimer's disease). BNO1 nucleic acids, proteins and antibodies may
XX also be used to diagnose or prognose disorders associated with BNO1
XX dysfunction, or a predisposition to these disorders. Additionally, BNO1
XX nucleic acids and proteins, and transgenic animals comprising human BNO1
XX nucleic acid sequences or in which BNO1 gene function has been knocked
XX out are useful in screening potential drugs for treating BNO1-associated
XX disorders, and the human BNO1 protein isoforms are particularly useful
XX for identifying BNO1-specific protein substrates that are targeted for
XX degradation by ubiquitination. Sequences ABQ94326-ABQ94349 represent
XX human BNO1 gene-specific PCR primers used in SSCP (single-strand
XX conformation polymorphism) analysis of tumours and cell lines for BNO1
XX mutations in an exemplification of the invention
SQ Sequence 19 BP; 6 A; 8 C; 5 G; 0 T; 0 U; 0 Other;
Query Match 0.6%; Score 16.4; DB 1; Length 19;
```

```
Best Local Similarity 94.4%; Pred. No. 1.2e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2171 TCCTGCTCAGTGTGGG 2188
    |||||
Db 19 TCCTGCTCGTGTGGG 2

RESULT 160
AAA55806/c
ID AAA55806 standard; DNA; 20 BP.
XX
AC AAA55806;
XX
DT 01-SEP-2000 (first entry)
XX
DE Human histone deacetylase HD2 antisense oligonucleotide SEQ ID NO:51.
XX
KW Human; DNA methyltransferase; DNA Methylase; antisense oligonucleotide;
KW modulation; inhibition; gene expression; combination therapy; p16;
KW histone deacetylase; HDAC; thymidylate synthase; tumour suppressor;
KW methylation; gene therapy; tumour; cytostatic; antiasthmatic;
KW antiinflammatory; inflammation; asthma; ss.
XX
OS Homo sapiens.
XX
PN WO200023112-A1.
XX
PD 27-APR-2000.
XX
PF 19-OCT-1999; 99WO-US024278.
XX
PR 19-OCT-1998; 98US-0104804P.
XX
PA (METH-) METHYLGENE INC.
XX
PI Besterman JM, Macleod AR, Siders WM;
XX
DR WPI; 2000-339532/29.
XX
XX Inhibiting gene expression e.g. DNA methyltransferase, by treating cells
PT with a synergistic amount of antisense oligonucleotide and protein
PT effectors e.g. 5-aza-cytidine of gene products, useful for gene therapy
PT of e.g. tumors.
XX
PS Disclosure; Page 29; 99pp; English.
XX
CC The present invention describes a method for inhibiting the expression of
CC a gene in a cell comprising contacting the cell with an effective
CC synergistic amount of an antisense oligonucleotide which inhibits
CC expression of the gene, and an effective synergistic amount of a protein
CC effector of a product of the gene. Also described are: (1) a method for
CC treating a disease responsive to inhibition of a gene in a mammal; (2) a
CC method for inhibiting tumour growth in mammal; (3) an inhibitor of a gene
CC comprising an antisense oligonucleotide which inhibits expression of the
CC gene in operable association with a protein effector of a gene product;
CC and (4) a pharmaceutical composition comprising the inhibitor of (3). The
CC methods and compositions are useful as analytical tools for transgenic
CC studies and as therapeutic tools, e.g. as gene therapy tools for human
CC diseases including benign and malignant tumours, inflammation or asthma.
CC The methods, inhibitors and compositions of the invention that inhibit
CC expression or activity of a gene or gene product may be used to treat
CC patients having, or predisposed to developing, a disease responsive to
CC inhibition of the gene. These may also be used to activate silenced genes
CC to provide missing gene functions and improve a given condition.
CC Furthermore, the methods and compositions are useful as probes of the
CC physiological function of a gene product in an experimental cell culture
CC or animal system; and to evaluate the effect of inhibiting gene activity
CC or expression. AAA55758 to AAA55842 represent oligonucleotide sequences
CC which are used in the exemplification of the present invention
XX
SQ Sequence 20 BP; 0 A; 7 C; 7 G; 6 T; 0 U; 0 Other;

Query Match 0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.2e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 643 GGCAGCAGCGGCAGCAGC 660
    |||||
Db 19 GGCAGCAGCGGCAGCAGC 2

RESULT 161
AAC89536/c
ID AAC89536 standard; DNA; 20 BP.
XX
AC AAC89536;
XX
DT 08-MAR-2001 (first entry)
XX
DE Human HDAC-2 PCR primer SEQ ID NO: 6.
XX
KW Histone deacetylase; HDAC-1; HDAC-2; HDAC-3; HDAC-4; HDAC-5; HDAC-C;
KW HDAC-D; cell cycle; tumorigenesis; cancer; inhibitor; antisense;
KW gene therapy; PCR primer; ss.
XX
OS Homo sapiens.
XX
PN WO200071703-A2.
XX
PD 30-NOV-2000.
XX
PF 03-MAY-2000; 2000WO-IB001252.
XX
PR 03-MAY-1999; 99US-0132287P.
XX
PA (METH-) METHYLGENE INC.
XX
PI Macleod AR, Li Z, Besterman JM;
XX
DR WPI; 2001-016407/02.
XX
XX Antisense oligonucleotide that inhibits expression of a histone
PT deacetylase, useful for treating and/or alleviating the symptoms of
PT neoplasia, or for inhibiting neoplastic cell growth in an animal.
XX
PS Disclosure; Page 12; 125pp; English.
XX
CC The present invention provides inhibitors of histone deacetylase enzymes
CC such as HDAC-1, HDAC-2, HDAC-3, HDAC-4, HDAC-5, HDAC-C and HDAC-D. These
CC inhibitors may be antisense strands or they may be compounds identified
CC by contacting the enzyme with the compound and measuring the resulting
CC enzyme activity. These inhibitors are useful for treating cancers and for
CC identifying which histone deacetylase is involved in a neoplasia
XX
SQ Sequence 20 BP; 0 A; 7 C; 7 G; 6 T; 0 U; 0 Other;

Query Match 0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.2e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 643 GGCAGCAGCGGCAGCAGC 660
    |||||
Db 19 GGCAGCAGCGGCAGCAGC 2

RESULT 162
AAC89545/c
ID AAC89545 standard; DNA; 20 BP.
XX
AC AAC89545;
XX
DT 08-MAR-2001 (first entry)
XX
DE Human HDAC-2 antisense sequence SEQ ID NO: 15.
XX
```

KW Histone deacetylase; HDAC-1; HDAC-2; HDAC-3; HDAC-4; HDAC-5; HDAC-C;  
KW HDAC-D; cell cycle; tumorigenesis; cancer; inhibitor; antisense;  
KW gene therapy; PCR primer; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO200071703-A2.  
XX  
XX 30-NOV-2000.  
XX  
XX 03-MAY-2000; 2000WO-IB001252.  
XX  
XX 03-MAY-1999; 99US-0132287P.  
XX  
XX (METH-) METHYLGENE INC.  
XX  
XX Macleod AR, Li Z, Besterman JM;  
XX  
XX WPI; 2001-016407/02.  
XX  
XX Antisense oligonucleotide that inhibits expression of a histone  
PT deacetylase, useful for treating and/or alleviating the symptoms of  
PT neoplasia, or for inhibiting neoplastic cell growth in an animal.  
XX  
XX Example 1; Page 24; 125pp; English.  
XX  
XX The present invention provides inhibitors of histone deacetylase enzymes  
CC such as HDAC-1, HDAC-2, HDAC-3, HDAC-4, HDAC-5, HDAC-C and HDAC-D. These  
CC inhibitors may be antisense strands or they may be compounds identified  
CC by contacting the enzyme with the compound and measuring the resulting  
CC enzyme activity. These inhibitors are useful for treating cancers and for  
CC identifying which histone deacetylase is involved in a neoplasia  
XX  
SQ Sequence 20 BP; 0 A; 7 C; 7 G; 4 T; 2 U; 0 Other;  
  
Query Match 0.6%; Score 16.4; DB 1; Length 20;  
Best Local Similarity 94.4%; Pred. No. 1.2e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
  
QY 643 GGCAGCAGCGCAGCAGC 660  
Db 19 GGCAGCAGCGCAGCAGC 2  
  
RESULT 163  
AAH43116/c  
ID AAH43116 standard; DNA; 20 BP.  
XX  
XX AAH43116;  
XX  
XX 19-SEP-2001 (first entry)  
XX  
XX Antisense oligo, target HDAC-2 121-141.  
XX  
XX Antisense; histone deacetylase; HDAC-1; HDAC-2; HDAC-4; inhibitor;  
KW cell proliferation; cancer; restenosis; psoriasis; protozoal infection;  
KW fungal infections; ss.  
XX  
XX Synthetic.  
OS  
XX  
XX WO200138322-A1.  
XX  
XX 31-MAY-2001.  
XX  
XX 22-NOV-2000; 2000WO-IB001881.  
XX  
XX 23-NOV-1999; 99US-0167035P.  
XX  
XX (METH-) METHYLGENE INC.  
XX  
XX Delorme D, Ruel R, Lavoie R, Thibault C, Abou-Khalil E;  
PI WPI; 2001-432601/46.  
XX  
XX

XX  
PT New inhibitors of histone deacetylase e.g. N-hydroxy-5-(4-  
PT (benzenesulfonylamino)-phenyl)-4-yn-2-pentanamide for treating cancer,  
PT restenosis or fungal infections.  
XX  
XX Disclosure; Page 40; 147pp; English.  
XX  
XX The sequences given in AAH43115-21 are oligonucleotides which are  
CC antisense to the histone deacetylase gene, HDAC-2. These oligonucleotides  
CC may be used in combination with an inhibitor of histone deacetylase  
CC enzyme function, to given an improved inhibitory effect, thereby reducing  
CC the amount of inhibitor required to obtain a given inhibitory effect.  
CC Compounds containing these oligonucleotides may be used to treat cell  
CC proliferation conditions such as cancer, restenosis or psoriasis. They  
CC can also be used to treat protozoal and fungal infections  
XX  
SQ Sequence 20 BP; 0 A; 7 C; 7 G; 6 T; 0 U; 0 Other;  
  
Query Match 0.6%; Score 16.4; DB 1; Length 20;  
Best Local Similarity 94.4%; Pred. No. 1.2e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
  
QY 643 GGCAGCAGCGCAGCAGC 660  
Db 19 GGCAGCAGCGCAGCAGC 2  
  
RESULT 164  
ABA00084  
ID ABA00084 standard; DNA; 20 BP.  
XX  
XX ABA00084;  
XX  
XX 25-OCT-2002 (first entry)  
XX  
XX Human APC primer #1.  
XX  
XX Primer; probe; detection; Helicobacter pylori; integrity; ss.  
KW  
XX Homo sapiens.  
XX  
XX WO200259379-A2.  
XX  
XX 01-AUG-2002.  
XX  
XX 04-JAN-2002; 2002WO-US000267.  
XX  
XX 05-JAN-2001; 2001US-00755004.  
XX  
XX (EXAC-) EXACT SCI CORP.  
XX  
XX Shuber AP;  
XX  
XX WPI; 2002-599807/64.  
XX  
XX Detecting, grading and/or monitoring a Helicobacter pylori infection by  
PT detecting a high-integrity H. pylori nucleic acid in a patient sample.  
XX  
XX Example 5; Page 27; 28pp; English.  
XX  
XX The sequences given in ABA00075 and ABA00083-85 are probes and primers  
CC which were used in the detection of H. pylori infection pre- and post-  
CC treatment in a patient, compared to the presence of human DNA. These  
CC sequences may be used in the method of the invention for detecting a H.  
CC pylori infection. The method comprises: (a) determining an integrity of a  
CC Helicobacter pylori nucleic acid present; or (b) amplifying and detecting  
CC Helicobacter pylori nucleic acid at least 200,  
CC a first, second or third Helicobacter pylori nucleic acid identified with an  
CC 400 or 600 in length, respectively, where a patient is identified with an  
CC infection if the integrity of the nucleic acid exceeds a predetermined  
CC threshold, or if the amplified first, second or third Helicobacter pylori  
CC nucleic acids are detected. The method is useful for detecting a  
CC Helicobacter pylori infection, determining its status, monitoring  
CC progression, evaluating efficacy of a treatment and diagnosing gastric

CC disease by detecting a high-integrity *Helicobacter pylori* nucleic acid in  
 CC a patient sample. Prior methods of using polymerase chain reaction (PCR)  
 CC in assays detecting *H. pylori* infection usually lack the specificity to  
 CC distinguish a successfully treated patient from a patient with a  
 CC continuing *H. pylori* infection. The present invention of non-invasive  
 CC method uses more sensitive and more specific assays to test for and to  
 CC monitor *H. pylori* infection and course of treatment  
 XX  
 SQ Sequence 20 BP; 5 A; 12 C; 0 G; 3 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 16.4; DB 1; Length 20;  
 Best Local Similarity 94.4%; Pred. No. 1.2e+02;  
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 280 CTCCTCCACCACTCTCTC 297  
 Db 1 CACCTCCACCACTCTCTC 18  
 RESULT 165  
 ABD23963  
 ID ABD23963 standard; DNA; 20 BP.  
 AC ABD23963;  
 XX  
 DT 29-JUL-2004 (first entry)  
 XX Human calmodulin 2-derived oligonucleotide SEQ ID 2975.  
 DE  
 XX Human; antisense; bronchoconstriction; allergy; hyposecretion; pain;  
 KW respiratory tract inflammation; adenosine sensitivity; lung; cancer;  
 KW surfactant depletion; antiallergic; antiinflammatory; antiasthmatic;  
 KW analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis;  
 KW beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;  
 KW respiratory distress syndrome; allergic rhinitis; pulmonary hypertension;  
 KW emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;  
 KW pulmonary transplantation rejection; ss; primer.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200285309-A2.  
 XX  
 PD 31-OCT-2002.  
 XX  
 PF 23-APR-2002; 2002WO-US013143.  
 XX  
 PR 24-APR-2001; 2001US-0286036P.  
 XX  
 PA (EPIG-) EPIGENESIS PHARM INC.  
 XX  
 PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;  
 PI Miller S, Tang L, Shahabuddin S;  
 XX  
 DR WPI; 2003-093058/08.  
 XX  
 PT Pharmaceutical composition for treating asthma, has antisense  
 PT oligonucleotide containing less percentage of adenosine, targeted to  
 PT nucleic acids associated with lung airway or lung dysfunction, and  
 PT bronchodilating agent.  
 XX  
 PS Claim 15; SEQ ID NO 2975; 763pp; English.  
 XX  
 CC This invention describes a novel composition (a) a first active agent,  
 CC comprising oligonucleotides, effective for alleviating  
 CC bronchoconstriction, respiratory tract inflammation, allergies and  
 CC reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,  
 CC surfactant depletion or hyposecretion, when administered to a mammal. The  
 CC oligonucleotides are derived from a gene encoding or regulating  
 CC expression of a target polypeptide associated with lung airway or lung  
 CC dysfunction or cancer and can be anti-sense to the corresponding mRNA.  
 CC The invention also describes a kit, that comprises: (a) a delivery  
 CC device, in separate containers, (b) the oligonucleotides, (c)  
 CC instructions for adding a carrier and for use of the kit. The composition

CC of the invention has antiallergic, antiinflammatory, antiasthmatic,  
 CC analgesic, hypotensive, immunosuppressive and cytostatic activity, is a  
 CC beta-adrenergic agonist. The composition is useful for preventing or  
 CC treating a respiratory, lung or malignant disease. The administered  
 CC composition comprises oligo and is administered to reduce the production  
 CC or availability, or to increase the degradation of the target mRNA or to  
 CC reduce the amount of target polypeptide present in the lungs. The  
 CC pulmonary obstruction, and/or bronchoconstriction and/or lung  
 CC inflammation, allergies and/or surfactant hypoproduction are associated  
 CC with a disease or condition such as pulmonary vasoconstriction,  
 CC inflammation, allergies, asthma, impeded respiration, respiratory  
 CC distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary  
 CC hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary  
 CC transplantation rejection, pulmonary infections, bronchitis or cancer.  
 CC The reduced adenosine content of the anti-sense oligos corresponding to  
 CC thymidines present in the target RNA serves to prevent the breakdown of  
 CC the oligonucleotides into products that free adenosine into the system  
 CC e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to  
 CC prevent any unwanted effects due to it  
 XX  
 SQ Sequence 20 BP; 1 A; 0 C; 16 G; 3 T; 0 U; 0 Other;

Query Match 0.6%; Score 16.4; DB 1; Length 20;  
 Best Local Similarity 94.4%; Pred. No. 1.2e+02;  
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 207 GGGGGTGGGGTGGGGG 224

Db 3 GGGGGTGGGGTGGGGG 20

RESULT 166

ABL94386/c

ID ABL94386 standard; DNA; 20 BP.

XX ABL94386;

XX

DT 29-JUL-2002 (first entry)

XX

DE Mouse C/EBP beta phosphorothioate antisense oligonucleotide, SEQ ID:152.

XX Mouse; murine; C/EBP beta; CCAAT/enhancer-binding protein beta; C/EBP2;

KW LAP; TCF5; CRP2; NFIL6; IL6BP; NF-M; AGP/EBP; Apc/EBP;

KW transcription factor; tissue development; cellular function;

KW proliferation; differentiation; hormone responsiveness;

KW oxidative stress response; IL-6 signalling mediator; interleukin-6;

KW carbohydrate metabolism; immunity; Th1 response; female fertility;

KW gluconeogenesis; ovarian; cancer; tumour formation; type II; diabetes;

KW infection; inflammation; expression inhibition; phosphorothioate;

XX antisense oligonucleotide; ss.

XX Mus musculus.

OS

FH Key Location/Qualifiers

FT modified\_base 1..20

FT /tag= a

FT /mod\_base= OTHER

FT /note= "Phosphorothioate linkages"

FT modified\_base 1..5

FT /tag= b

FT /mod\_base= OTHER

FT /note= "2'-methoxyethyl (2'-MOE) nucleotides. All 2' MOE

FT cytosines are 5-methylcytosine"

FT modified\_base 16..20

FT /tag= c

FT /mod\_base= OTHER

FT /note= "2'-methoxyethyl (2'-MOE) nucleotides. All 2' MOE

FT cytosines are 5-methylcytosine"

PN US6271030-B1.

XX

PD 07-AUG-2001.

XX

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PF 14-JUN-2000; 2000US-00593711.
XX
XX
PR 14-JUN-2000; 2000US-00593711.
XX
XX
PA (ISIS-) ISIS PHARM INC.
XX
XX
PI Monia BP, Butler MM, Wyatt J;
XX
XX
DR WPI; 2002-214451/27.
XX
XX
PT Novel antisense compound targeted to nucleic acids encoding human or
PT mouse CCAAT/enhancer binding protein (C/EBP) beta, useful in vitro for
PT inhibiting expression of human or mouse C/EBP beta in cells/tissues.
XX
XX
PS Example 17; Col 49-50; 69pp; English.
XX
XX
CC Sequences ABL94252-ABL94476 represent antisense oligonucleotides targeted
CC to the human or mouse CCAAT/enhancer-binding protein alpha (C/EBP alpha)
CC gene, which inhibit its expression. The antisense oligonucleotides were
CC designed to target different regions of the human and/or mouse C/EBP
CC alpha RNA, and were analysed for their effect on C/EBP alpha mRNA levels
CC by quantitative real-time PCR. The C/EBP family of proteins are a family
CC of transcription factors which regulate the expression of a wide range of
CC genes that control normal tissue development, cellular function, cellular
CC proliferation and functional differentiation. C/EBP beta (also known as
CC C/EBP2, LAP, TCF5, CRP2, NFIL6, IL6BP, NF-M, AGP/EBP and Apc/EBP)
CC primarily regulates homeostasis and oxidative stress responses
CC and is a mediator of IL-6 (interleukin-6) signalling. C/EBP beta is
CC thought to be involved in carbohydrate metabolism, immunity, the Th1
CC response, female fertility and gluconeogenic pathways. C/EBP beta is
CC expressed in the liver, lung, spleen, kidney, brain, and testis, with the
CC highest expression found in the lung. It is also expressed at a higher
CC level in malignant ovarian tissue compared with normal ovarian tissue,
CC and its expression in pancreas is upregulated in response to chronically
CC elevated levels of glucose, indicating that it is involved in the
CC impairment of insulin secretion in type II diabetes. The oligonucleotides
CC of the invention are useful for diagnosis, prevention and treatment of
CC conditions associated with C/EBP beta expression, such as cancer
CC (particularly ovarian cancer), tumour formation, diabetes (particularly
CC type II diabetes), infection, or inflammation
XX
XX
SQ Sequence 20 BP; 0 A; 9 C; 7 G; 4 T; 0 U; 0 Other;
Query Match 0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.2e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 649 AGCGGAGCAGCGCGCGC 666
DB 18 AGCGGAGCAGCGCGCAGC 1
|||||
DE Human casein kinase 2-alpha prime antisense oligonucleotide #14.
XX
XX
KW Human; casein kinase 2-alpha prime; diabetes mellitus;
KW hyperproliferative disorder; breast cancer; prostate cancer;
KW liver cancer; infection; inflammation; tumour formation; cytostatic;
KW antidiabetic; antiinflammatory; antimicrobial; phosphorothioate;
KW antisense therapy; ss.
XX
XX
OS Homo sapiens.
XX
XX
WO200262951-A2.
XX
XX
PD 15-AUG-2002.

RESULT 167
ABS67915/c
ID ABS67915 standard; DNA; 20 BP.
XX
XX
AC ABS67915;
XX
XX
DT 29-NOV-2002 (first entry)
XX
XX
DE Human casein kinase 2-alpha prime antisense oligonucleotide #14.
XX
XX
KW Human; casein kinase 2-alpha prime; diabetes mellitus;
KW hyperproliferative disorder; breast cancer; prostate cancer;
KW liver cancer; infection; inflammation; tumour formation; cytostatic;
KW antidiabetic; antiinflammatory; antimicrobial; phosphorothioate;
KW antisense therapy; ss.
XX
XX
OS Homo sapiens.
XX
XX
WO200262951-A2.
XX
XX
PD 15-AUG-2002.

RESULT 168
ABZ87733
ID ABZ87733 standard; DNA; 20 BP.
XX
XX
AC ABZ87733;
XX
XX
DT 17-OCT-2003 (first entry)
XX
XX
DE Human oligonucleotide sequence.
XX
XX
KW Human; antisense; lung dysfunction; nasal airway dysfunction;
KW antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;
KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;
KW antisense gene therapy; respiratory; lung; adenosine sensitivity;
KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
KW lung inflammation; respiratory disease; ds.
XX
XX
OS Homo sapiens.
XX
XX
WO200285308-A2.
XX
XX
PD 31-OCT-2002.
XX
XX
PF 23-APR-2002; 2002WO-US013135.
XX
XX
PR 24-APR-2001; 2001US-0286137P.
XX
XX
PA (EPIG-) EPIGENESIS PHARM INC.
XX
XX
PI Myce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;

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XX 01-FEB-2002; 2002WO-US002772.
XX
XX 08-FEB-2001; 2001US-00780173.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX McKay R, Freier SM, Wyatt JR;
XX
XX WPI; 2002-627539/67.
XX
XX New antisense oligonucleotides targeted to nucleic acid encoding casein
PT kinase 2-alpha prime, useful for diagnosing and/or treating a disease or
PT condition associated with expression of casein kinase 2-alpha prime.
XX
XX Claim 3; Page 96; 129pp; English.
XX
XX The present invention relates to antisense oligonucleotides and methods
CC for modulating the expression of human or mouse casein kinase 2-alpha
CC prime. The antisense oligonucleotides are useful for inhibiting the
CC expression of casein kinase 2-alpha prime, and for treating diseases or
CC conditions associated with aberrant expression of casein kinase 2-alpha
CC prime. Such diseases include diabetes mellitus, and hyperproliferative
CC disorders (particularly cancers e.g. breast cancer, prostate cancer, or
CC liver cancer). The antisense compounds are also useful for diagnostics,
CC therapeutics, prophylaxis, e.g. to prevent or delay infection,
CC inflammation or tumour formation, as research reagents and kits, and in
CC distinguishing between functions of various members of a biological
CC pathway. ABS67840-ABS67917 represent human or mouse casein kinase 2-alpha
CC prime antisense oligonucleotides which comprise a phosphorothioate
CC backbone
XX
XX Sequence 20 BP; 6 A; 1 C; 12 G; 1 T; 0 U; 0 Other;
Query Match 0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.2e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 273 CCTCTCTCTCTCTCCACCA 290
DB 19 CCTCTCTCTCTCTCTCCCA 2
|||||

```



PI Miller S, Tang L, Shahabuddin S;  
 DR WPI; 2003-229219/22.  
 XX  
 XX Pharmaceutical composition for treating ailments associated with impaired  
 PT respiration, has oligo(s) antisense to specific gene(s) or its  
 PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or  
 PT ubiquinone.  
 XX  
 XX Disclosure; SEQ ID NO 2975; 872pp; English.  
 XX  
 XX The invention relates to a novel pharmaceutical composition, which has a  
 CC first active agent comprising an oligonucleotide antisense to the  
 CC initiation codon, coding region, 5' or 3' end genomic flanking regions,  
 CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of  
 CC junctions of genes encoding a polypeptide associated with lung and/or  
 CC nasal airway dysfunction and a second active agent comprising an  
 CC antiinflammatory steroid and ubiquinone. A composition of the invention  
 CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive,  
 CC immunosuppressive, and cytostatic activity. The composition may have a  
 CC use in antisense gene therapy. The composition is useful for treating or  
 CC preventing a respiratory, lung or malignant disease or condition, also  
 CC for enhancing the prophylactic or therapeutic respiratory effect of an  
 CC antiinflammatory steroid in a subject, for reducing or depleting levels  
 CC of, or reducing sensitivity to adenosine, reducing levels of adenosine  
 CC receptor, producing bronchodilation, increasing levels of ubiquinone or  
 CC lung surfactant in a subject's tissue, or treating bronchoconstriction,  
 CC lung inflammation, lung allergies, or a respiratory disease or condition.  
 CC Note: The sequence data for this patent is not represented in the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequences  
 XX  
 SQ Sequence 20 BP; 1 A; 0 C; 16 G; 3 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 16.4; DB 1; Length 20;  
 Best Local Similarity 94.4%; Pred. No. 1.2e+02;  
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 207 GGGGGGTGGGTGGGGG 224  
 Db 3 GGGGGGTGGGTGGGGAG 20  
 RESULT 169  
 ADFS3079  
 ID ADFS3079 standard; DNA; 20 BP.  
 XX  
 AC ADFS3079;  
 XX  
 DT 12-FEB-2004 (first entry)  
 DE Variant detecting primer extension assay extension primer, SEQ ID No 35.  
 KW variant detection; primer extension assay; mutation; cancer;  
 KW heterogeneous; sporadic mutation; genotyping; pooled sample; primer; ss.  
 OS Unidentified.  
 XX  
 PN WO2003071252-A2.  
 XX  
 PD 28-AUG-2003.  
 XX  
 PF 18-FEB-2003; 2003WO-US004827.  
 XX  
 PR 15-FEB-2002; 2002US-0357585P.  
 XX  
 PA (EXAC-) EXACT SCI CORP.  
 XX  
 PI Shuber AP, Kann L, Whitney D;  
 XX  
 DR WPI; 2003-697649/66.  
 XX  
 PT Detecting a variant in a primer extension assay, useful for analyzing

PT molecular events for identifying mutations indicative of cancer, by  
 PT contacting a target nucleic acid primer complementary to a region of the  
 PT target nucleic acid.  
 XX  
 XX Example 5; SEQ ID NO 35; 54pp; English.  
 XX  
 CC The invention relates to a novel method for detecting a variant in a  
 CC primer extension assay, useful for analysing molecular events for  
 CC identifying mutations indicative of cancer, by contacting a target  
 CC nucleic acid primer complementary to a region of the target nucleic acid.  
 CC Detecting a variant in a primer extension assay comprises contacting a  
 CC target nucleic acid primer complementary to a region of the target  
 CC nucleic acid, and extending the primer in the presence of a first  
 CC nucleotide that is complementary to a first variant nucleotide suspected  
 CC to be at a position downstream of the region and a second nucleotide that  
 CC is complementary to a second variant nucleotide at the position, thus to  
 CC reduce misincorporation of the first nucleotide on a template comprising  
 CC the second variant nucleotide. The methods are useful for analysing  
 CC molecular events for identifying individuals with mutations indicative of  
 CC cancer. They are particularly useful in detecting a rare mutation in a  
 CC heterogeneous biological sample (e.g. sporadic mutation in a  
 CC heterogeneous patient sample), detecting rare genotypes in genotyping  
 CC reactions (e.g. viral genotyping reactions), or detecting mutant or viral  
 CC sequences in pooled samples (e.g. detecting polymorphisms or inherited  
 CC sequence variations in pooled patient samples). This polynucleotide  
 CC sequence represents a primer used as part of the primer extension assay  
 CC of the invention.  
 XX  
 SQ Sequence 20 BP; 5 A; 12 C; 0 G; 3 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 16.4; DB 1; Length 20;  
 Best Local Similarity 94.4%; Pred. No. 1.2e+02;  
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 280 CTCCTCCACACCTCTC 297  
 Db 1 CACCTCCACACCTCTC 18  
 RESULT 170  
 ADF76206  
 ID ADF76206 standard; DNA; 20 BP.  
 XX  
 AC ADF76206;  
 XX  
 DT 12-AUG-2004 (first entry)  
 DE Chimeric phosphorothioate oligonucleotide #5.  
 XX  
 KW GFAT; Antidiabetic; Cardiant;  
 KW Glutamine-fructose-6-phosphate amidotransferase; diabetes; ischemia;  
 KW reperfusion; ss.  
 XX  
 OS Synthetic.  
 XX  
 FH Key Location/Qualifiers  
 FT modified\_base 1..4  
 FT /tag= a  
 FT /mod\_base= other  
 FT /note= "2-methoxyethyl wing"  
 FT modified\_base 17..20  
 FT /tag= b  
 FT /mod\_base= other  
 FT /note= "2-methoxyethyl wing"  
 XX  
 PN WO2004035763-A2.  
 XX  
 PD 29-APR-2004.  
 XX  
 PF 02-OCT-2003; 2003WO-US033332.  
 XX  
 PR 17-OCT-2002; 2002US-0419268P.  
 XX

PA (PHAA ) PHARMACIA CORP.  
XX  
PI Broschat KO, Crosby SD;  
XX  
XX WPI; 2004-348453/32.  
XX  
DR New compounds, particularly antisense oligonucleotides targeted to a  
XX nucleic acid encoding glutamine-fructose-6-phosphate amidotransferase  
PT (GFAT), for treating diabetes, a cardiovascular or neurologic disorder,  
PT ischemia/reperfusion injury.  
XX  
XX Claim 4; SEQ ID NO 5; 175pp; English.  
XX  
XX The present invention relates to a compound which specifically hybridizes  
CC with a nucleic acid molecule encoding GFAT, and inhibits the expression  
CC of GFAT. Specifically claimed are antisense oligonucleotides capable of  
CC modulating the expression of GFAT, and which comprise any of the 3063  
CC sequences of 20 base pairs, given in the specification. The compound,  
CC composition and methods are useful for treating a disease or condition  
CC associated with GFAT, such as a disease or condition, e.g. diabetes, a  
CC cardiovascular or neurological disorder, ischemia/reperfusion injury.  
CC They are also useful in research and diagnostics for modulating the  
CC expression of GFAT. The present sequence represents a chimeric  
CC phosphorothioate oligonucleotide with 2'-MOE wings and a deoxy gap, these  
CC oligonucleotides inhibit human GFAT expression.  
XX  
SQ Sequence 20 BP; 0 A; 6 C; 12 G; 2 T; 0 U; 0 Other;  
  
Query Match 0.6%; Score 16.4; DB 1; Length 20;  
Best Local Similarity 94.4%; Pred. No. 1.2e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
  
QY 897 CGGGGGCGGGGTGGCGC 914  
|||||  
Db 3 CGGGGGCGGGGTGGCGC 20  
|||||  
  
RESULT 171  
ADP76209  
ID ADP76209 standard; DNA; 20 BP.  
XX  
XX ADP76209;  
XX  
XX 12-AUG-2004 (first entry)  
XX  
XX Chimeric phosphorothioate oligonucleotide #8.  
XX  
XX GFAT; Antidiabetic; Cardiant;  
KW Glutamine-fructose-6-phosphate amidotransferase; diabetes; ischemia;  
KW reperfusion; ss.  
XX  
XX Synthetic.  
XX  
XX Key Location/Qualifiers  
FH modified\_base 1..4  
FT /\*tag= a  
FT /mod\_base= other  
FT /note= "2-methoxyethyl wing"  
FT modified\_base 17..20  
FT /\*tag= b  
FT /mod\_base= other  
FT /note= "2-methoxyethyl wing"  
XX  
XX WO2004035763-A2.  
XX  
XX 29-APR-2004.  
XX  
XX 02-OCT-2003; 2003WO-US033332.  
XX  
XX 17-OCT-2002; 2002US-0419268P.  
XX  
XX (PHAA ) PHARMACIA CORP.  
XX

PI Broschat KO, Crosby SD;  
XX  
XX WPI; 2004-348453/32.  
XX  
DR New compounds, particularly antisense oligonucleotides targeted to a  
XX nucleic acid encoding glutamine-fructose-6-phosphate amidotransferase  
PT (GFAT), for treating diabetes, a cardiovascular or neurologic disorder,  
PT ischemia/reperfusion injury.  
XX  
XX Claim 4; SEQ ID NO 8; 175pp; English.  
XX  
XX The present invention relates to a compound which specifically hybridizes  
CC with a nucleic acid molecule encoding GFAT, and inhibits the expression  
CC of GFAT. Specifically claimed are antisense oligonucleotides capable of  
CC modulating the expression of GFAT, and which comprise any of the 3063  
CC sequences of 20 base pairs, given in the specification. The compound,  
CC composition and methods are useful for treating a disease or condition  
CC associated with GFAT, such as a disease or condition, e.g. diabetes, a  
CC cardiovascular or neurological disorder, ischemia/reperfusion injury.  
CC They are also useful in research and diagnostics for modulating the  
CC expression of GFAT. The present sequence represents a chimeric  
CC phosphorothioate oligonucleotide with 2'-MOE wings and a deoxy gap, these  
CC oligonucleotides inhibit human GFAT expression.  
XX  
SQ Sequence 20 BP; 0 A; 6 C; 12 G; 2 T; 0 U; 0 Other;  
  
Query Match 0.6%; Score 16.4; DB 1; Length 20;  
Best Local Similarity 94.4%; Pred. No. 1.2e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
  
QY 897 CGGGGGCGGGGTGGCGC 914  
|||||  
Db 2 CGGGGGCGGGGTGGCGC 19  
|||||  
  
RESULT 172  
ADT06081  
ID ADT06081 standard; DNA; 20 BP.  
XX  
XX ADT06081;  
XX  
XX 30-DEC-2004 (first entry)  
XX  
XX Artificially synthesised aptamer oligonucleotide, SEQ ID 2.  
XX  
XX aptamer; micro array; virus inhibition; ss.  
XX  
XX Synthetic.  
XX  
XX Key Location/Qualifiers  
FH stem\_loop 1..20  
FT /\*tag= a  
XX  
XX WO2004087919-A1.  
XX  
XX 14-OCT-2004.  
XX  
XX 24-MAR-2004; 2004WO-JF004102.  
XX  
XX 28-MAR-2003; 2003JP-00089494.  
XX  
XX (NAAD-) NAT INST ADVANCED IND SCI & TECHNOLOGY.  
XX  
XX Asai R, Nishimura S, Takahashi K;  
PI WPI; 2004-737714/72.  
XX  
XX Acquiring aptamer, by immobilizing polynucleotides on substrate of micro  
PT arrays, contacting immobilized substrate with labeled target molecules,  
PT and selecting polynucleotide having high bond strength with respect to  
PT target molecule.  
XX  
XX Disclosure; SEQ ID NO 2; 27pp; Japanese.  
PS

XX The invention relates to a novel method for acquiring an aptamer by  
 CC immobilising polynucleotides. The method comprises: having mutually  
 CC different base sequences on a substrate of micro arrays, contacting the  
 CC immobilised substrate with labelled target molecules, selecting a  
 CC polynucleotide having high bond strength with respect to the target  
 CC molecule, and immobilising polynucleotides obtained after subjecting the  
 CC base sequence of the polynucleotide selected in the above step to a  
 CC mutation. The method is useful for acquiring aptamers. The method is  
 CC useful for acquiring an aptamer such as a polynucleotide, which is useful  
 CC as a test reagent and therapeutic agent. The method is useful in  
 CC developing the aptamer that inhibits a virus protein. The method  
 CC efficiently and rapidly acquires an aptamer capable of binding to a  
 CC target molecule, by using a micro array. The polynucleotide is easily  
 CC loaded onto a chip and a polynucleotide (an aptamer), capable of binding  
 CC to a target molecule, is instantaneously assayed by using a micro array,  
 CC at low cost. This polynucleotide sequence represents an artificially  
 CC synthesised aptamer oligonucleotide used in the exemplification of the  
 CC invention.

XX Sequence 20 BP; 0 A; 6 C; 13 G; 1 T; 0 U; 0 Other;

Query Match 0.6%; Score 16.4; DB 1; Length 20;  
 Best Local Similarity 94.4%; Pred. No. 1.2e+02;  
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 202 CCCCCGGGGGGTGGGGT 219  
 Db 3 CCCCCGGGGGGTGGGGG 20

RESULT 173

AEA28955/c  
 ID AEA28955 standard; DNA; 20 BP.

XX AEA28955;

XX 28-JUL-2005 (first entry)

XX Human androgen receptor-VI amplifying RT-PCR primer, SEQ ID NO: 24.

XX Androgen-responsiveness; prostate tumor; cytostatic; andrology;

KW genitourinary disease; neoplasm; prognosis; diagnostic;

KW androgen receptor; RT-PCR; primer; ss.

XX Homo sapiens.

XX US2005112706-A1.

XX 26-MAY-2005.

XX 06-NOV-2003; 2003US-00703209.

XX 07-NOV-2002; 2002US-0424490P.

XX (KASP/) KASPER S.

XX Kasper S;

XX WPI; 2005-403364/41.

XX Determining androgen-responsiveness of biological sample, by assaying  
 PT levels of expression from androgen-regulatable expression construct in  
 PT cells transfected with androgen-regulatable expression construct and  
 PT control.

XX Example 1; SEQ ID NO 24; 66pp; English.

XX The present invention relates to diagnostic and prognostic methods for  
 CC identification or determination of androgen-responsiveness of biological  
 CC samples, biopsy samples, tumor cells and tissues. The invention is useful  
 CC for determining androgen-responsiveness of a biological sample where the  
 CC biological sample is a needle biopsy or punch biopsy. The invention is

CC also useful for identifying or determining androgen-responsiveness of a  
 CC tumor cell and tissue and in the treatment of a tumor, particularly  
 CC prostate tumor. The present sequence is human androgen receptor-VI (AR-  
 CC VI) amplifying RT-PCR primer. This sequence is used to illustrate the  
 CC method of enhancing transcription in primary human prostate epithelial  
 CC (PSE) cells through an androgen-independent mechanism.

XX Sequence 20 BP; 4 A; 0 C; 11 G; 5 T; 0 U; 0 Other;

Query Match 0.6%; Score 16.4; DB 1; Length 20;  
 Best Local Similarity 94.4%; Pred. No. 1.2e+02;  
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2653 ACCCTGTTTCCCAACCC 2670  
 Db 18 ACCCTATTTCACCAACCC 1

RESULT 174

AAQ26760/c

ID AAQ26760 standard; cDNA; 17 BP.

XX AAQ26760;

XX 25-MAR-2003 (revised)

XX 11-FEB-1993 (first entry)

XX BetaGlc Linker 2.

XX VH; VK; huTUMAK-L-beta-Gluc; monoclonal antibody; tumour; linker;

KW beta-glucuronidase; hinge; prodrug; ss.

XX Synthetic.

XX EP501215-A2.

XX 02-SEP-1992.

XX 10-FEB-1992; 92EP-00102197.

XX 28-FEB-1991; 91DE-04106389.

XX (BEHW ) BEHRINGER AG.

XX (FARH ) HOECHST AG.

XX Seemann G, Bosslet K, Czech J, Kolar C, Hoffmann D, Sedlacek H;

XX WPI; 1992-293718/36.

XX Fusion protein for diagnosis and treatment - comprises humanised, tumour-  
 specific monoclonal antibody (fragment), linker and beta-glucuronidase.

XX Example (C); Page 5; 34pp; German.

XX The 431/26 VH and VK antibody fragments represented in AAQ26757-58 are  
 CC pref. for the prodn. of the fusion proteins of formula huTUMAK-L-beta-  
 CC Gluc (I) (huTUMAK= humanised, tumour-specific monoclonal antibody, or its  
 CC tumour-binding fragments); L= linker, beta-Gluc= human beta-  
 CC glucuronidase). BetaGlc Linker 1 and betaGlc Linker 2 oligonucleotides  
 CC are given in AAQ26759-60. Hinge 1 and hinge 2 oligonucleotides are given  
 CC in AAQ26761-62. (I) are used to activate prodrugs. The antibody component  
 CC provides for specific targeting to tumours while the beta-Gluc component  
 CC activates a suitable prodrug by cleavage of glucuronic acid. The  
 CC combination of the prodrug and (I) is useful in tumour treatment or  
 CC diagnosis. (Updated on 25-MAR-2003 to correct PN field.) (Updated on 25-  
 CC MAR-2003 to correct PA field.)

XX Sequence 17 BP; 1 A; 10 C; 5 G; 1 T; 0 U; 0 Other;

Query Match 0.6%; Score 16; DB 1; Length 17;

Best Local Similarity 100.0%; Pred. No. 1.1e+02;

Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 656 GCAGCGCGCGCGCGG 671
Db 16 GCAGCGCGCGCGCGG 1

RESULT 175
ABZ59896
ID ABZ59896 standard; RNA; 17 BP.
XX
AC ABZ59896;
XX
DT 21-MAR-2003 (first entry)
XX
DE Human K-Ras DNazyme substrate #8.
XX
KW Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras;
KW enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytostatic; anti-HIV;
KW anti-rheumatic; cancer; AIDS; ss.
XX
OS Homo sapiens.
XX
PN WO200297114-A2.
XX
PD 05-DEC-2002.
XX
PF 29-MAY-2002; 2002WO-US016840.
XX
PR 29-MAY-2001; 2001US-0294140P.
PR 06-JUN-2001; 2001US-0296249P.
PR 10-SEP-2001; 2001US-0318471P.
XX
XX (RIBO-) RIBOZYME PHARM INC.
XX
PI Mcswiggen J;
XX
XX WPI; 2003-140484/13.
XX
DR Novel short interfering RNA and enzymatic nucleic acid useful for
PT treating cancer, modulates the expression of a nucleic acid encoding
PT HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences.
XX
PS Claim 58; Page 85; 185pp; English.
XX
CC The invention relates to a novel short interfering RNA (siRNA) nucleic
CC acid molecule or an enzymatic nucleic acid molecule, that modulates
CC expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-Ras,
CC human immunodeficiency virus (HIV) or a component of HIV. The nucleic
CC acid molecule of the invention has cytostatic, anti-HIV, and anti-
CC rheumatic activity. The nucleic acid molecules are useful for reducing
CC HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are
CC also useful for treating breast, ovarian, colorectal, lung, prostate,
CC bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences
CC shown in ABZ59899 - ABZ62216, ABZ64544 - ABZ65531, ABZ66520 - ABZ66524,
CC ABZ66530 - ABZ66585 represent substrate/target sequences for the human
CC ribozymes of the invention
XX
SQ Sequence 17 BP; 3 A; 5 C; 9 G; 0 T; 0 U; 0 Other;

Query Match 0.6%; Score 16; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 652 GCAGCAGCGCGCGCG 667
Db 2 GCAGCAGCGCGCGCG 17

RESULT 176
ABZ59897
ID ABZ59897 standard; RNA; 17 BP.
XX
AC ABZ59897;
XX
```

```
DT 21-MAR-2003 (first entry)
XX
DE Human K-Ras DNazyme substrate #9.
XX
KW Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras;
KW enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytostatic; anti-HIV;
KW anti-rheumatic; cancer; AIDS; ss.
XX
OS Homo sapiens.
XX
PN WO200297114-A2.
XX
PD 05-DEC-2002.
XX
PF 29-MAY-2002; 2002WO-US016840.
XX
PR 29-MAY-2001; 2001US-0294140P.
PR 06-JUN-2001; 2001US-0296249P.
PR 10-SEP-2001; 2001US-0318471P.
XX
XX (RIBO-) RIBOZYME PHARM INC.
XX
PI Mcswiggen J;
XX
XX WPI; 2003-140484/13.
XX
DR Novel short interfering RNA and enzymatic nucleic acid useful for
PT treating cancer, modulates the expression of a nucleic acid encoding
PT HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences.
XX
PS Claim 58; Page 85; 185pp; English.
XX
CC The invention relates to a novel short interfering RNA (siRNA) nucleic
CC acid molecule or an enzymatic nucleic acid molecule, that modulates
CC expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-Ras,
CC human immunodeficiency virus (HIV) or a component of HIV. The nucleic
CC acid molecule of the invention has cytostatic, anti-HIV, and anti-
CC rheumatic activity. The nucleic acid molecules are useful for reducing
CC HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are
CC also useful for treating breast, ovarian, colorectal, lung, prostate,
CC bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences
CC shown in ABZ59899 - ABZ62216, ABZ64544 - ABZ65531, ABZ66520 - ABZ66524,
CC ABZ66530 - ABZ66585 represent substrate/target sequences for the human
CC ribozymes of the invention
XX
SQ Sequence 17 BP; 3 A; 6 C; 8 G; 0 T; 0 U; 0 Other;

Query Match 0.6%; Score 16; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 654 CAGCAGCGCGCGCGG 669
Db 1 CAGCAGCGCGCGCGG 16

RESULT 177
ADZ28970
ID ADZ28970 standard; RNA; 17 BP.
XX
AC ADZ28970;
XX
XX 30-JUN-2005 (first entry)
XX
DE Human K-Ras substrate RNA sequence SEQ ID NO:8.
XX
KW short interfering RNA; siRNA; RNA interference; gene silencing;
KW cytostatic; cancer; Ras gene; substrate; ss.
XX
OS Homo sapiens.
XX
XX US2005080031-A1.
XX
```

PD 14-APR-2005.  
XX  
PF 26-NOV-2003; 2003US-00724270.  
XX  
PR 18-MAY-2001; 2001US-0292217P.  
PR 29-MAY-2001; 2001US-0294140P.  
PR 06-JUN-2001; 2001US-0296249P.  
PR 20-JUL-2001; 2001US-0306883P.  
PR 13-AUG-2001; 2001US-0311865P.  
PR 10-SEP-2001; 2001US-0318471P.  
PR 20-FEB-2002; 2002US-0358580P.  
PR 06-MAR-2002; 2002US-0362016P.  
PR 11-MAR-2002; 2002US-0363124P.  
PR 29-MAY-2002; 2002WO-US015876.  
PR 29-MAY-2002; 2002US-00157580.  
PR 29-MAY-2002; 2002WO-US016840.  
PR 06-JUN-2002; 2002US-00163552.  
PR 29-AUG-2002; 2002US-0386782P.  
PR 29-AUG-2002; 2002US-0406784P.  
PR 05-SEP-2002; 2002US-0408378P.  
PR 09-SEP-2002; 2002US-0409293P.  
PR 15-JAN-2003; 2003US-040129P.  
PR 20-FEB-2003; 2003WO-US005028.  
PR 20-FEB-2003; 2003WO-US005346.  
PR 16-APR-2003; 2003US-00417012.  
PR 24-APR-2003; 2003US-00422704.  
PR 30-APR-2003; 2003US-00427160.  
PR 23-MAY-2003; 2003US-00444853.  
PR 29-AUG-2003; 2003US-00652791.  
PR 23-OCT-2003; 2003US-00693059.  
XX  
PA (SIRN-) SIRNA THERAPEUTICS INC.  
XX  
PI Mcswiggen J;  
XX  
DR WPI; 2005-331166/34.  
XX  
PT Novel double-stranded short interfering RNA molecule having first  
PT nucleotide sequence complementary to RNA encoding HER2 or its portion,  
PT and second nucleotide sequence having complementarity to first sequence,  
PT useful for treating cancer.  
XX  
PS Example 1; SEQ ID NO 8; 143pp; English.  
XX  
CC The invention relates to a double-stranded short interfering RNA (siRNA)  
CC molecule (I) comprising a first nucleotide sequence having 19-23  
CC nucleotides complementary to an RNA sequence encoding HER2 or its  
CC portion, and a second nucleotide sequence having 19-23 nucleotides  
CC exhibiting complementarity to the first sequence, and including at least  
CC one nucleotide that is not a 2'-OH containing ribonucleotide. Also  
CC described is a method of producing a class of nucleic acid-based gene  
CC modulating agents that exhibit a high degree of specificity for RNA of a  
CC desired target. (I) is useful for modulating HER2 activity in a cell, and  
CC for treating diseases or conditions related to levels of HER2 gene  
CC expression. (I) is useful for treating cancer, such as pancreatic cancer,  
XX  
SQ Sequence 17 BP; 3 A; 5 C; 9 G; 0 T; 0 U; 0 Other;  
XX  
Query Match 0.6%; Score 16; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 1.1e+02;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Oy 652 GGCAGCAGCGCGGCG 667  
|||||  
Db 2 GGCAGCAGCGCGGCG 17

RESULT 178  
ADZ28971  
ID ADZ28971 standard; RNA; 17 BP.  
XX  
XX ADZ28971;  
AC  
XX  
DT 30-JUN-2005 (first entry)  
XX  
DE Human K-Ras substrate RNA sequence SEQ ID NO:9.  
XX  
KW short interfering RNA; siRNA; RNA interference; gene silencing;  
KW cytoskeletal; cancer; Ras gene; substrate; ss.  
XX  
OS Homo sapiens.  
XX  
PN US2005080031-A1.  
XX  
PD 14-APR-2005.  
XX  
PF 26-NOV-2003; 2003US-00724270.  
XX  
PR 18-MAY-2001; 2001US-0292217P.  
PR 29-MAY-2001; 2001US-0294140P.  
PR 06-JUN-2001; 2001US-0296249P.  
PR 20-JUL-2001; 2001US-0306883P.  
PR 13-AUG-2001; 2001US-0311865P.  
PR 10-SEP-2001; 2001US-0318471P.  
PR 20-FEB-2002; 2002US-0358580P.  
PR 06-MAR-2002; 2002US-0362016P.  
PR 11-MAR-2002; 2002US-0363124P.  
PR 29-MAY-2002; 2002WO-US015876.  
PR 29-MAY-2002; 2002US-00157580.  
PR 06-JUN-2002; 2002US-00163552.  
PR 29-AUG-2002; 2002US-0386782P.  
PR 29-AUG-2002; 2002US-0406784P.  
PR 05-SEP-2002; 2002US-0408378P.  
PR 09-SEP-2002; 2002US-0409293P.  
PR 10-SEP-2002; 2002US-00238700.  
PR 15-JAN-2003; 2003US-0440129P.  
PR 20-FEB-2003; 2003WO-US005028.  
PR 20-FEB-2003; 2003WO-US005346.  
PR 16-APR-2003; 2003US-00417012.  
PR 24-APR-2003; 2003US-00422704.  
PR 30-APR-2003; 2003US-00427160.  
PR 23-MAY-2003; 2003US-00444853.  
PR 29-AUG-2003; 2003US-00652791.  
PR 23-OCT-2003; 2003US-00693059.  
XX  
PA (SIRN-) SIRNA THERAPEUTICS INC.  
XX  
PI Mcswiggen J;  
XX  
DR WPI; 2005-331166/34.  
XX  
PT Novel double-stranded short interfering RNA molecule having first  
PT nucleotide sequence complementary to RNA encoding HER2 or its portion,  
PT and second nucleotide sequence having complementarity to first sequence,  
PT useful for treating cancer.  
XX  
PS Example 1; SEQ ID NO 9; 143pp; English.  
XX  
CC The invention relates to a double-stranded short interfering RNA (siRNA)  
CC molecule (I) comprising a first nucleotide sequence having 19-23  
CC nucleotides complementary to an RNA sequence encoding HER2 or its  
CC portion, and a second nucleotide sequence having 19-23 nucleotides  
CC exhibiting complementarity to the first sequence, and including at least  
CC one nucleotide that is not a 2'-OH containing ribonucleotide. Also  
CC described is a method of producing a class of nucleic acid-based gene  
CC modulating agents that exhibit a high degree of specificity for RNA of a  
CC desired target. (I) is useful for modulating HER2 activity in a cell, and  
CC for treating diseases or conditions related to levels of HER2 gene  
CC expression. (I) is useful for treating cancer, such as pancreatic cancer,

CC bladder cancer, lung cancer, breast cancer or prostate cancer. The  
CC present sequence represents a human K-Ras substrate RNA sequence for a  
CC DNzyme (ribozyme), which is used in an example from the present  
CC invention for the identification of potential target sites in human Ras  
CC RNA.  
XX  
SQ Sequence 17 BP; 3 A; 6 C; 8 G; 0 T; 0 U; 0 Other;  
  
Query Match 0.6%; Score 16; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 1.1e+02;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 654 CAGCAGCGCGCGGC 669  
Db 1 CAGCAGCGCGCGGC 16  
  
RESULT 179  
AAT39475  
ID AAT39475 standard; DNA; 19 BP.  
XX  
AC AAT39475;  
XX  
XX  
DT 21-MAY-1997 (first entry)  
XX  
DE Steroidogenesis acute regulatory protein sense PCR primer 1.  
XX  
KW Human; steroidogenesis; acute regulatory protein; hSTAR; analysis;  
KW mutation; detection; prenatal; genetic defect; congenital; protein;  
KW lipid adrenal hyperplasia; treatment; prevention; gene;  
KW replacement therapy; hypercholesterolaemia; primer; PCR;  
KW polymerase chain reaction; ss.  
XX  
OS Synthetic.  
XX  
PN WO9629338-A1.  
XX  
PD 26-SEP-1996.  
XX  
PF 22-MAR-1996; 96WO-US003896.  
XX  
PR 23-MAR-1995; 95US-00410540.  
XX  
XX (REGC ) UNIV CALIFORNIA.  
PA (OYPE-) UNIV PENNSYLVANIA.  
XX  
PI Miller WL, Lin D, Strauss JF;  
XX  
XX WPI; 1996-443130/44.  
XX  
XX Isolated human steroidogenesis acute regulatory protein gene - used for  
PT detection of mutation(s) of this gene that cause congenital lipid  
PT adrenal hyperplasia.  
XX  
PS Disclosure; Page 4; 89pp; English.  
XX  
CC The present sequence is a PCR primer (nt 66-84) for the human  
CC steroidogenesis acute regulatory protein (hSTAR) cDNA. The hSTAR gene can  
CC be analysed for mutations to detect (e.g. prenatally) genetic defects  
CC associated with congenital lipid adrenal hyperplasia (CAH), or its  
CC transmission to children. CAH can be treated by protein or gene  
CC replacement therapy, which can also be used to prevent or treat  
CC hypercholesterolaemia. A human adrenal cortex cDNA library was screened  
CC with a mouse STAR probe to isolate a 1.6 Kb insert, including an ORF for  
CC a 285 residue protein. When it was cloned into pSPORT and expressed in  
CC COS-1 cells cotransfected with pP450scd and pADX, it increased the level  
CC of pregnenolone synthesis from cholesterol or 20-alpha-hydroxycholesterol  
XX  
SQ Sequence 19 BP; 5 A; 6 C; 8 G; 0 T; 0 U; 0 Other;  
  
Query Match 0.6%; Score 16; DB 1; Length 19;  
Best Local Similarity 100.0%; Pred. No. 1.3e+02;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCAGCAG 659  
Db 4 GCAGCAGCGCGCAGCAG 19  
  
RESULT 180  
AAV85752  
ID AAV85752 standard; DNA; 19 BP.  
XX  
AC AAV85752;  
XX  
DT 10-FEB-1999 (first entry)  
XX  
DE LRP5 exon primer 57-2 lr.  
XX  
KW LRP5; LDL-receptor related protein; LRP-3; IDDM; diagnosis; endocytosis;  
KW insulin dependent diabetes mellitus; autoimmune disease;  
KW glomerulonephritis; inflammation; viral infection; osteoporosis;  
KW hypercholesterolemia; Alzheimer's disease; low density lipoprotein;  
KW PCR primer; ss.  
XX  
OS Synthetic.  
OS Homo sapiens.  
XX  
PN WO9846743-A1.  
XX  
PD 22-OCT-1998.  
XX  
PF 15-APR-1998; 98WO-GB001102.  
XX  
PR 15-APR-1997; 97US-0043553P.  
PR 05-JUN-1997; 97US-0048740P.  
XX  
XX (WELL ) WELLCOME TRUST LTD.  
PA (MERI ) MERCK & CO INC.  
XX  
XX Todd JA, Hess JW, Caskey CT, Cox RD, Gerhold D, Hammond H;  
PI Hey P, Kawaguchi Y, Merriman TR, Metzker ML, Nakagawa Y;  
PI Phillips MS, Twells RCU;  
XX  
XX WPI; 1998-594573/50.  
XX  
XX New isolated LDL-receptor related protein - used to develop products for  
PT treating, e.g. elevated triglyceride levels, diabetes, autoimmune  
PT disorders, inflammation or Alzheimer's disease.  
XX  
PS Claim 12; Page 105; 200pp; English.  
XX  
CC The present invention describes LRP5 (low density lipoprotein (LDL)  
CC receptor related protein, previously designated LRP-3). AAV8587 to  
CC AAV85822 represent exon primers used for obtaining LRP5 cDNA. Nucleic  
CC acid molecules (NAMS) encoding LRP5 can be used for determining if an  
CC individual is susceptible to insulin dependent diabetes mellitus (IDDM).  
CC The NAMS or proteins can be used for reducing triglyceride levels in the  
CC serum of an individual. Therapies that affect LRP5 may also be useful in  
CC the treatment of autoimmune diseases such as glomerulonephritis, diseases  
CC and disorders involving disruption of endocytosis and/or antigen  
CC presentation, cytokine clearance and/or inflammation, viral infection,  
CC pathogenic bacterial toxin contamination, elevation of free fatty acids  
CC or hypercholesterolemia, type 2 diabetes, osteoporosis, Alzheimer's  
CC disease and cardiovascular disease. Products from the present invention  
CC can also be used for detection, diagnosis and drug screening  
XX  
SQ Sequence 19 BP; 3 A; 7 C; 3 G; 6 T; 0 U; 0 Other;  
  
Query Match 0.6%; Score 16; DB 1; Length 19;  
Best Local Similarity 100.0%; Pred. No. 1.3e+02;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1581 CATCTTTGCCCATG 1596  
Db 4 CATCTTTGCCCATG 19

```

RESULT 181
AAV85830
ID AAV85830 standard; DNA; 19 BP.
XX
XX AAV85830;
AC
XX
XX 10-FEB-1999 (first entry)
DT
XX
XX LRP5 SNP primer 57-2 1r.
DE
XX
XX LRP5; LDL-receptor related protein; LRP-3; IDDM; diabetes; endocytosis;
KW insulin dependent diabetes mellitus; autoimmune disease;
KW glomerulonephritis; inflammation; viral infection; osteoporosis;
KW hypercholesterolemia; Alzheimer's disease; low density lipoprotein;
KW PCR primer; ss.
XX
XX Synthetic.
OS
XX Homo sapiens.
OS
XX
XX WO9846743-A1.
PN
XX
XX 22-OCT-1998.
PD
XX
XX 15-APR-1998; 98WO-GB001102.
PF
XX
XX 15-APR-1997; 97US-0043553P.
PR
XX
XX 05-JUN-1997; 97US-0048740P.
PR
XX
XX (WELL ) WELLCOME TRUST LTD.
PA
XX (MERI ) MERCK & CO INC.
PA
XX
XX Todd JA, Hess JW, Caskey CT, Cox RD, Gerhold D, Hammond H;
PI Hey P, Kawaguchi Y, Merriman TR, Metzker ML, Nakagawa Y;
PI Phillips MS, Twells RCU;
PI
XX WPI; 1998-594573/50.
DR
XX
XX New isolated LDL-receptor related protein - used to develop products for
PT treating, e.g. elevated triglyceride levels, diabetes, autoimmune
PT disorders, inflammation or Alzheimer's disease.
PT
XX
XX Claim 12; Page 110; 200pp; English.
PS
XX
XX The present invention describes LRP5 (low density lipoprotein (LDL)
CC receptor related protein, previously designated LRP-3). AAV85823 to
CC AAV85900 represent SNP primers used for obtaining LRP5 cDNA. Nucleic acid
CC molecules (NAMS) encoding LRP5 can be used for determining if an
CC individual is susceptible to insulin dependent diabetes mellitus (IDDM).
CC The NAMS or proteins can be used for reducing triglyceride levels in the
CC serum of an individual. Therapies that affect LRP5 may also be useful in
CC the treatment of autoimmune diseases such as glomerulonephritis, diseases
CC and disorders involving disruption of endocytosis and/or antigen
CC presentation, cytokine clearance and/or inflammation, viral infection,
CC pathogenic bacterial toxin contamination, elevation of free fatty acids
CC or hypercholesterolemia, type 2 diabetes, osteoporosis, Alzheimer's
CC disease and cardiovascular disease. Products from the present invention
CC can also be used for detection, diagnosis and drug screening
XX
XX Sequence 19 BP; 3 A; 7 C; 3 G; 6 T; 0 U; 0 Other;
SQ
Query Match 0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1581 CATCTTTGCCACCATG 1596
Db 4 CATCTTTGCCACCATG 19

RESULT 182
ADF49277/c
ID ADF49277 standard; RNA; 19 BP.
XX
XX ADF49277;
AC
XX
XX 12-FEB-2004 (first entry)
DT
XX
XX Human BCL2 siRNA upper sequence SEQ ID NO:5.
DE
XX
XX ss; siRNA; human; BCL2; short interfering nucleic acid; RNA interference;
KW cytostatic; immunosuppressive; virucide; anti-HIV; cancer;
KW autoimmune disease; viral infection; HIV.
KW
XX Homo sapiens.
OS
XX
XX WO2003070969-A2.
PN
XX
XX 28-AUG-2003.
PD
XX
XX 18-FEB-2003; 2003WO-US004908.
PF
XX
XX 20-FEB-2002; 2002US-0358580P.
PR
XX
XX 11-MAR-2002; 2002US-0363124P.
PR
XX
XX 06-JUN-2002; 2002US-0386782P.
PR
XX
XX 18-JUL-2002; 2002US-0396905P.
PR
XX
XX 29-AUG-2002; 2002US-0406784P.
PR
XX
XX 05-SEP-2002; 2002US-0408378P.
PR
XX
XX 09-SEP-2002; 2002US-0409293P.
PR
XX
XX 15-JAN-2003; 2003US-0440129P.
XX
XX (RIBO-) RIBOZYME PHARM INC.
PA
XX
XX Mcswiggen J, Beigelman L;
XX
XX WPI; 2003-712622/67.
XX
XX New short interfering nucleic acid, useful e.g. for treatment and
PT diagnosis of cancer or autoimmune disease, downregulates expression of
PT the BCL2 gene.
PT
XX
XX Example 3; SEQ ID NO 5; 148pp; English.
PS
XX
XX The invention relates to a novel short interfering nucleic acid (siNA)
CC that downregulates expression of the BCL2 gene by RNA interference. A
CC siNA of the invention has cytostatic, immunosuppressive, virucide, and
CC anti-HIV activity. The siNA are useful for modulation (inhibition) of
CC expression or activity of BCL2 by RNA interference. siNA are used to
CC modulate expression of BCL2 genes, in cells, tissue explants or
CC organisms, e.g. for treating cancer, autoimmune diseases and viral
CC infections (including by HIV) but also for drug screening, diagnosis,
CC target identification and validation, genetic engineering, (e.g. of single
CC pharmacogenomics, studying gene function and gene mapping, (e.g. of single
CC nucleotide polymorphisms)). The sequences shown in ADF49273-ADF50143
CC represent siNA of the invention.
XX
XX Sequence 19 BP; 0 A; 11 C; 6 G; 0 T; 2 U; 0 Other;
SQ
Query Match 0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 656 GCAGCGGCGGCGGG 671
Db 19 GCAGCGGCGGCGGG 4

RESULT 183
ADF49691
ID ADF49691 standard; RNA; 19 BP.
XX
XX ADF49691;
AC
XX
XX 12-FEB-2004 (first entry)
DT
XX
XX

```

DE Human BCL2 siNA upper sequence SEQ ID NO:419.  
XX ss; siNA; human; BCL2; short interfering nucleic acid; RNA interference;  
KW cytosolic; immunosuppressive; virucide; anti-HIV; cancer;  
KW autoimmune disease; viral infection; HIV.  
XX  
OS Homo sapiens.  
XX  
XX WO2003070969-A2.  
PN  
XX  
XX 28-AUG-2003.  
PD  
XX  
XX 18-FEB-2003; 2003WO-US004908.  
PF  
XX  
XX 20-FEB-2002; 2002US-0358580P.  
PR  
XX 11-MAR-2002; 2002US-0363124P.  
PR  
XX 06-JUN-2002; 2002US-0386782P.  
PR  
XX 18-JUL-2002; 2002US-0396905P.  
PR  
XX 29-AUG-2002; 2002US-0406784P.  
PR  
XX 05-SEP-2002; 2002US-0408378P.  
PR  
XX 09-SEP-2002; 2002US-0409293P.  
PR  
XX 15-JAN-2003; 2003US-0440129P.  
XX  
XX (RIBO-) RIBOZYME PHARM INC.  
PA  
XX  
XX Mcswiggen J, Beigelman L;  
PI  
XX  
XX WPI; 2003-712622/67.  
DR  
XX  
XX New short interfering nucleic acid, useful e.g. for treatment and  
PT diagnosis of cancer or autoimmune disease, downregulates expression of  
PT the BCL2 gene.  
PT  
XX  
XX Example 3; SEQ ID NO 419; 148pp; English.  
XX  
XX The invention relates to a novel short interfering nucleic acid (siNA)  
CC that downregulates expression of the BCL2 gene by RNA interference. A  
CC siNA of the invention has cytostatic, immunosuppressive, virucide, and  
CC anti-HIV activity. The siNA are useful for modulation (inhibition) of  
CC expression or activity of BCL2 by RNA interference. siNA are used to  
CC modulate expression of BCL2 genes, in cells, tissue explants or  
CC organisms, e.g. for treating cancer, autoimmune diseases and viral  
CC infections (including by HIV) but also for drug screening, diagnosis,  
CC target identification and validation, genetic engineering (e.g. of single  
CC pharmacogenomics, studying gene function and gene mapping (e.g. of single  
CC -nucleotide polymorphisms). The sequences shown in ADF49273-ADF50143  
CC represent siNA of the invention.  
XX  
XX Sequence 19 BP; 2 A; 6 C; 11 G; 0 T; 0 U; 0 Other;  
SQ  
Query Match 0.8%; Score 16; DB 1; Length 19;  
Best Local Similarity 100.0%; Pred. No. 1.3e+02;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 656 GCAGCGCGCGCGCG 671  
DB 1 GCAGCGCGCGCGCG 16  
RESULT 184  
AAZ11949/C  
ID AAZ11949 standard; DNA; 45 BP.  
XX  
XX AAZ11949;  
AC  
XX  
XX 30-NOV-1999 (first entry)  
DT  
XX  
XX Human potassium channel pore domain DNA sequence 9.  
DE  
XX Potassium channel; ataxia; arrhythmia; epilepsy; Bartter's syndrome;  
KW cardiovascular disorder; CNS disorder; renal disorder; ss.  
KW  
XX Synthetic.  
OS

OS Homo sapiens.  
XX  
XX WO9943696-A1.  
PN  
XX  
XX 02-SEP-1999.  
PD  
XX  
XX 22-FEB-1999; 99WO-US003826.  
PF  
XX  
XX 25-FEB-1998; 98US-0076687P.  
PR  
XX 07-AUG-1998; 98US-0095836P.  
PR  
XX 19-JAN-1999; 98US-0116448P.  
XX  
XX (AXYS-) AXYS PHARM INC.  
PA  
XX  
XX Miller AP, Curran ME, Hu P, Rutter M, Wang J;  
PI  
XX  
XX WPI; 1999-527591/44.  
DR  
XX  
XX New nucleic acids encoding mammalian K-Hnov potassium channel proteins,  
PT useful for the diagnosis and treatment of episodic ataxia with myokymia,  
PT cardiac arrhythmia, epilepsy and Bartter's syndrome.  
PT  
XX  
XX Example 1; Page 31; 112pp; English.  
XX  
XX This sequence represents a DNA encoding a pore domain from a human  
CC potassium channel and was used in the identification and isolation of  
CC human K-Hnov cDNAs (AAZ11897-211915). K-Hnov proteins have a high degree  
CC of homology to known potassium channels and may be alpha subunits, which  
CC form the functional channel, or accessory subunits that act to modulate  
CC the channel activity. K-Hnov cDNAs were isolated by extension of  
CC expressed sequence tags (ESTs) which were related but not identical to  
CC known human potassium channels. Potential polymorphisms detected as  
CC sequence variants between multiple independent clones. Potassium channels  
CC have critical roles in various cell types and biochemical pathways.  
CC Defective potassium channels are known to cause four human diseases:  
CC episodic ataxia with myokymia; cardiac arrhythmia (long QT syndrome);  
CC epilepsy; and Bartter's syndrome. As potassium channels are critical  
CC components of virtually all cells, it is likely that abnormal potassium  
CC channels are also implicated in certain renal, cardiovascular and central  
CC nervous system (CNS) disorders. Nucleotides encoding K-Hnov proteins may  
CC be used for identifying homologous or related proteins and the DNA  
CC sequences encoding them. They may be used to produce compositions that  
CC modulate the expression and function of the K-Hnov protein and in  
CC studying the biochemical pathways associated with it. They may also be  
CC used for the recombinant production of K-Hnov protein in fermentation  
CC cultures. Additionally, such nucleotides may be used in gene therapy  
CC protocols for the treatment of diseases associated with abnormal  
CC potassium channels  
XX  
XX Sequence 45 BP; 9 A; 10 C; 17 G; 9 T; 0 U; 0 Other;  
SQ  
Query Match 0.6%; Score 16; DB 1; Length 45;  
Best Local Similarity 62.5%; Pred. No. 2e+02;  
Matches 25; Conservative 0; Mismatches 15; Indels 0; Gaps 0;  
QY 2631 ATGTCTCCCAAGTCCTCTGCCACCCCTGTTTCCCCACCCC 2670  
DB 44 ATGTCTCTCGTAGCCAGTGTGTCGTATGTCGACACAGCCC 5  
RESULT 185  
AAQ52159  
ID AAQ52159 standard; RNA; 19 BP.  
XX  
XX AAQ52159;  
AC  
XX  
XX 25-MAR-2003 (revised)  
DT  
XX 26-MAY-1994 (first entry)  
DT  
XX  
XX Colon carcinoma specific mRNA ribozyme cleavable nucleotide (18).  
DE  
XX Multiple drug resistance; mdr-1; ribozyme; membrane protein; liver;  
KW resistance; chemotherapeutic agent; colchicine; doxorubicin; colon;  
KW



KW actinomycin D; vinblastine; small intestine; kidney; adrenal gland;  
 KW adenocarcinoma; bowel; transformed phenotype; promyelocytic leukemia;  
 KW human; chronic myelogenous leukemia; CML; follicular lymphoma;  
 KW B-cell acute lymphocytic leukemia; breast cancer; colon carcinoma;  
 KW neuroblastoma; lung cancer; genetic drift; mutation; hammerhead motif;  
 KW hairpin; hepatitis delta virus; group I intron; RNaseP; leukaemia; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO9323057-A1.  
 XX  
 XX 25-NOV-1993.  
 XX  
 XX 13-MAY-1993; 93WO-US004573.  
 XX  
 PR 14-MAY-1992; 92US-00882822.  
 PR 14-MAY-1992; 92US-00882885.  
 PR 26-AUG-1992; 92US-00936110.  
 PR 26-AUG-1992; 92US-00936421.  
 PR 26-AUG-1992; 92US-00936422.  
 PR 26-AUG-1992; 92US-00936422.  
 PR 26-AUG-1992; 92US-00936531.  
 PR 07-DEC-1992; 92US-00936532.  
 PR 19-JAN-1993; 92US-00987131.  
 PR 19-JAN-1993; 93US-00006122.  
 PR 19-JAN-1993; 93US-00008910.  
 XX  
 PA (RIBO-) RIBOZYME PHARM INC.  
 XX  
 PI Thompson JD, Draper KG;  
 PI  
 XX  
 XX WPI; 1993-386203/48.  
 DR  
 XX  
 PT New enzymatic RNA molecules (ribozymes) - which cleave mRNA associated  
 PT with tumours or mRNA expressed from gene encoding multiple drug  
 PT resistance.  
 PT  
 XX  
 PS Claim 3; Fig 9; 69pp; English.  
 XX  
 CC The sequences given in AAQ51825-2266 represent areas of mRNAs which are  
 CC associated with development or maintenance of chronic myelogenous  
 CC leukemia (CML), promyelocytic leukemia, Burkitt's lymphoma, or acute  
 CC lymphocytic leukemia, follicular lymphoma, B-cell acute lymphocytic  
 CC leukemia, breast cancer, colon carcinoma, neuroblastoma and lung cancer.  
 CC The full length mRNAs containing these target sequences, encode aberrant  
 CC cellular proteins which are able to control cellular proliferation and  
 CC are directly linked to a leukemic phenotype. These target sequences are  
 CC identified by the ribozyme of the invention. The ribozymes are formed in a  
 CC hammerhead motif, but may also be formed in the motif of a hairpin,  
 CC hepatitis delta virus, group I intron or RNaseP-like RNA. These ribozymes  
 CC may be used to inhibit the development or expression of a transformed  
 CC phenotype in man and other animals by modulating expression of the  
 CC corresponding gene. Cleavage of target mRNAs expressed in pre-neoplastic  
 CC and transformed cells elicits inhibition of the transformed state.  
 CC Multiple drug resistance (mdr-1) mRNA specific ribozymes remove the  
 CC mechanism of drug resistance used by transformed cells and thus enhances  
 CC drug therapies for tumours. The ribozymes may also be used to study  
 CC genetic drift and mutations within cells. (Updated on 25-MAR-2003 to  
 CC correct PN field.)  
 XX  
 XX Sequence 19 BP; 3 A; 5 C; 11 G; 0 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 15.8; DB 1; Length 19;  
 Best Local Similarity 89.5%; Pred. No. 1.3e+02;  
 Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 634 GCGCGTGCAGCAGCAGCG 652  
 DB 1 GCGCGCGAGCAGCAGCG 19  
 RESULT 186  
 AAS15289  
 ID AAS15289 standard; DNA; 19 BP.

XX AAS15289;  
 AC 16-JAN-2002 (first entry)  
 XX  
 DT Mouse IL-10 PCR primer #2-365R.  
 DE  
 XX  
 XX Mouse; ss; PCR primer; neuroprotective; #2-365R;  
 KW antiinflammatory; interleukin-1beta; IL-1b; tumour necrosis factoralpha;  
 KW TNFalpha; macrophage inflammatory protein-1alpha; MIP-1alpha;  
 KW fractalkane; glial fibrillar associated protein; GFAP; MHC; CX3CR1; CD86;  
 KW major histocompatibility complex; Alzheimer's disease; cerebral ischaemia;  
 KW neurodegenerative disease; VitD3-24OHase; MCP-1; IL-10; IL-12 p40;  
 KW IFN-gamma; CD3 epsilon; CD4; IgG-1; Ig k; osteopontin.  
 XX  
 XX Mus sp.  
 OS  
 XX WO200175165-A2.  
 PN  
 XX 11-OCT-2001.  
 PD  
 PD 30-MAR-2001; 2001WO-US010247.  
 PF  
 XX 30-MAR-2000; 2000US-0193847P.  
 PR  
 XX (ELAN-) ELAN PHARM INC.  
 PA  
 XX Mcconlogue LC, Games KD, Yednock TA, Hua T, Messersmith E;  
 PI Bard F;  
 PI  
 XX WPI; 2001-639367/73.  
 DR  
 XX  
 PT Selecting compounds useful for treating or preventing Alzheimer's  
 PT disease, from their ability to reduce levels of specific disease markers  
 PT in animal models.  
 PT  
 XX Example 5; Page 23; 36pp; English.  
 PS  
 XX The invention relates selecting compounds that reduce symptoms of  
 CC Alzheimer's disease using a non-human mammal that has been subjected to  
 CC cerebral ischaemia or lesion of a nerve so as to produce, in the affected  
 CC region, increased levels of specific markers of Alzheimer's disease-  
 CC associated inflammation. Test compounds are selected if they reduce  
 CC levels of these markers significantly, in the affected region, relative  
 CC to controls. The markers are interleukin-1beta (IL-1b), tumour necrosis  
 CC factoralpha (TNFalpha), macrophage inflammatory protein-1alpha (MIP-  
 CC 1alpha), glial fibrillar associated protein (GFAP), MHC (major  
 CC histocompatibility complex) Iialpha or II L, CD86, fractalkane or CX3CR1  
 CC (a receptor for fractalkane). The method is used to identify compounds  
 CC useful in treatment or prevention of Alzheimer's disease or other  
 CC neurodegenerative diseases that have an inflammatory component. The  
 CC method provides fast, accurate and quantitative drug screens. The present  
 CC sequence is a PCR primer used to determine the level of a transcript for  
 CC an efficacy marker in a transgenic mouse which overexpresses App and  
 CC displays Alzheimer's like neuropathology. The efficacy markers are VitD3-  
 CC 24OHase, MCP-1, IL-10, IL-12 p40, #1/#2, IFN-gamma #1/#2, CD3 epsilon,  
 CC CD4 #1/#2, IgG-1, Ig k (light chain)  
 XX  
 XX Sequence 19 BP; 3 A; 6 C; 5 G; 5 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 15.8; DB 1; Length 19;  
 Best Local Similarity 89.5%; Pred. No. 1.3e+02;  
 Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 1459 CGCATCTCTGGGATCTTCA 1477  
 DB 1 CGCATCTCTGGGATCTTCA 19  
 RESULT 187  
 ADE29386  
 ID ADE29386 standard; RNA; 19 BP.  
 XX

AC ADE29386;  
XX  
DT 29-JAN-2004 (first entry)  
XX  
DE Mitogen activated protein kinase siNA oligonucleotide SEQ ID NO:8.  
XX  
KW short interfering nucleic acid; siNA; downregulation; inhibition;  
KW mitogen-activated protein kinase; MAP kinase; MAPK; RNA interference;  
KW cytosolic; anorectic; antidiabetic; antiinflammatory; antiasthmatic;  
KW immunosuppressive; antibacterial; antirheumatic; antiarthritic;  
KW antipsoriatic; gastrointestinal; obesity; diabetes; tumour;  
KW inflammatory disease; asthma; septic shock; rheumatoid arthritis;  
KW psoriasis; inflammatory bowel disease; drug screening;  
KW genetic engineering; pharmacogenomic; gene mapping; ss.  
XX  
OS Synthetic.  
XX  
XX WO2003072590-A1.  
XX  
XX 04-SEP-2003.  
XX  
XX 28-JAN-2003; 2003WO-US002510.  
XX  
XX 20-FEB-2002; 2002US-0358580P.  
XX  
PR 11-MAR-2002; 2002US-0363124P.  
PR  
PR 06-JUN-2002; 2002US-0386782P.  
PR  
PR 29-AUG-2002; 2002US-0406784P.  
PR  
PR 05-SEP-2002; 2002US-0408378P.  
PR  
PR 09-SEP-2002; 2002US-0409293P.  
PR  
PR 15-JAN-2003; 2003US-0440129P.  
XX  
XX (SIRN-) SIRNA THERAPEUTICS INC.  
XX  
XX Mcswiggen J, Beigelman L, Usman N, Haerberli P, Chowrira B;  
XX WPI; 2003-689980/65.  
XX  
XX New short interfering nucleic acid, useful e.g. for treatment and  
PT diagnosis of cancer, downregulates expression of mitogen-activated  
PT protein kinase genes.  
XX  
XX Example 3; SEQ ID NO 8; 164pp; English.  
XX  
XX The present invention describes a short interfering nucleic acid (siNA)  
CC that downregulates expression of a mitogen-activated protein kinase  
CC (MAPK) genes by RNA interference. Also described: (1) a method for  
CC modulating expression of MAPK genes in cells, tissue explants or  
CC organisms by introduction of siNA; (2) kits for in vitro or in vivo  
CC delivery of siNA; (3) conjugates and/or complexes of siNA; and (4)  
CC vectors that express siNA and cells containing these vectors. MAPK siNAs  
CC have cytostatic, anorectic, antidiabetic, antiinflammatory,  
CC antiasthmatic, immunosuppressive, antibacterial, antirheumatic,  
CC antiarthritic, antipsoriatic and gastrointestinal activities. The MAPK  
CC siNAs can be used to modulate the expression of MAPK genes, in cells,  
CC tissue explants or organisms, e.g. for treating obesity; diabetes types I  
CC and II; a wide range of tumours, and inflammatory diseases (asthma,  
CC septic shock, rheumatoid arthritis, psoriasis and inflammatory bowel  
CC disease). They can also be used for drug screening; diagnosis; target  
CC identification and validation; genetic engineering; pharmacogenomics;  
CC studying gene function and gene mapping (e.g. of single-nucleotide  
CC polymorphisms). The present sequence represents a MAPK siNA which is used  
CC in the exemplification of the present invention.  
XX  
XX Sequence 19 BP; 1 A; 7 C; 10 G; 0 T; 1 U; 0 Other;  
SQ

QY 650 GCGGCGACGCGCGCGCG 668  
||||| ||| |||||  
Db 1 GCGGCGACGCGCGCGCG 19

RESULT 188  
ADE29549/c  
ID ADE29549 standard; RNA; 19 BP.  
XX  
AC ADE29549;  
XX  
XX 29-JAN-2004 (first entry)  
DT  
XX Mitogen activated protein kinase siNA oligonucleotide SEQ ID NO:171.  
DE  
XX short interfering nucleic acid; siNA; downregulation; inhibition;  
KW mitogen-activated protein kinase; MAP kinase; MAPK; RNA interference;  
KW cytosolic; anorectic; antidiabetic; antiinflammatory; antiasthmatic;  
KW immunosuppressive; antibacterial; antirheumatic; antiarthritic;  
KW antipsoriatic; gastrointestinal; obesity; diabetes; tumour;  
KW inflammatory disease; asthma; septic shock; rheumatoid arthritis;  
KW psoriasis; inflammatory bowel disease; drug screening;  
KW genetic engineering; pharmacogenomic; gene mapping; ss.  
XX  
XX Synthetic.  
OS  
XX WO2003072590-A1.  
XX  
XX 04-SEP-2003.  
XX  
XX 28-JAN-2003; 2003WO-US002510.  
XX  
XX 20-FEB-2002; 2002US-0358580P.  
XX  
PR 11-MAR-2002; 2002US-0363124P.  
PR  
PR 06-JUN-2002; 2002US-0386782P.  
PR  
PR 29-AUG-2002; 2002US-0406784P.  
PR  
PR 05-SEP-2002; 2002US-0408378P.  
PR  
PR 09-SEP-2002; 2002US-0409293P.  
PR  
PR 15-JAN-2003; 2003US-0440129P.  
XX  
XX (SIRN-) SIRNA THERAPEUTICS INC.  
XX  
XX Mcswiggen J, Beigelman L, Usman N, Haerberli P, Chowrira B;  
XX WPI; 2003-689980/65.  
XX  
XX New short interfering nucleic acid, useful e.g. for treatment and  
PT diagnosis of cancer, downregulates expression of mitogen-activated  
PT protein kinase genes.  
XX  
XX Example 3; SEQ ID NO 171; 164pp; English.  
XX  
XX The present invention describes a short interfering nucleic acid (siNA)  
CC that downregulates expression of a mitogen-activated protein kinase  
CC (MAPK) genes by RNA interference. Also described: (1) a method for  
CC modulating expression of MAPK genes in cells, tissue explants or  
CC organisms by introduction of siNA; (2) kits for in vitro or in vivo  
CC delivery of siNA; (3) conjugates and/or complexes of siNA; and (4)  
CC vectors that express siNA and cells containing these vectors. MAPK siNAs  
CC have cytostatic, anorectic, antidiabetic, antiinflammatory,  
CC antiasthmatic, immunosuppressive, antibacterial, antirheumatic,  
CC antiarthritic, antipsoriatic and gastrointestinal activities. The MAPK  
CC siNAs can be used to modulate the expression of MAPK genes, in cells,  
CC tissue explants or organisms, e.g. for treating obesity; diabetes types I  
CC and II; a wide range of tumours, and inflammatory diseases (asthma,  
CC septic shock, rheumatoid arthritis, psoriasis and inflammatory bowel  
CC disease). They can also be used for drug screening; diagnosis; target  
CC identification and validation; genetic engineering; pharmacogenomics;  
CC studying gene function and gene mapping (e.g. of single-nucleotide  
CC polymorphisms). The present sequence represents a MAPK siNA which is used  
CC in the exemplification of the present invention.  
XX  
XX Sequence 19 BP; 1 A; 10 C; 7 G; 0 T; 1 U; 0 Other;  
SQ

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.3e+02;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 650 GCGGCGAGCGCGCGCGCG 668  
DB 19 GCGGCTGCACCGCGCGCG 1

RESULT 189  
ADF54100/c  
ID ADF54100 standard; RNA; 19 BP.  
XX  
AC ADF54100;  
XX  
DT 12-FEB-2004 (first entry)  
XX  
DE Human GAB2 short interfering nucleic acid upper sequence SEQ ID NO:173.  
XX  
KW RNA interference; short interfering nucleic acid; siNA;  
KW short interfering RNA; siRNA; double-stranded RNA; micro-RNA; miRNA;  
KW short hairpin RNA; shRNA; expression modulation; gene therapy;  
KW drug screening; diagnosis; therapeutic target identification;  
KW pharmacogenomics; gene function analysis; gene mapping; human;  
KW GRB2-associated binding protein; GAB2; cancer; inflammation; allergy;  
KW chromosome 11; cytostatic; antiinflammatory; antiallergic;  
KW target sequence; ss.  
XX  
OS Synthetic.  
OS Homo sapiens.  
XX  
PN WO2003070903-A2.  
XX  
PD 28-AUG-2003.  
XX  
PF 18-FEB-2003; 2003WO-US004909.  
XX  
PR 20-FEB-2002; 2002US-0358580P.  
PR 11-MAR-2002; 2002US-0363124P.  
PR 06-JUN-2002; 2002US-0386782P.  
PR 29-AUG-2002; 2002US-0406784P.  
PR 05-SEP-2002; 2002US-0408378P.  
PR 09-SEP-2002; 2002US-0409293P.  
PR 15-JAN-2003; 2003US-0440129P.  
XX  
PA (RIBO-) RIBOZYME PHARM INC.  
XX  
PI Mcswiggen J, Beigelman L, Usman N;  
XX  
DR WPI; 2003-697611/66.  
XX  
PT New short interfering nucleic acid, useful e.g. for treatment and  
PT diagnosis of cancer, downregulates expression of the GRB2-associated  
PT binding protein gene.  
XX  
PS Example 3; SEQ ID NO 173; 140pp; English.  
XX  
CC The present invention relates to short interfering nucleic acids (siNA)  
CC which downregulate expression of the human GRB2-associated binding  
CC protein (GAB2) gene by RNA interference. The siNAs may or may not  
CC comprise ribonucleotides and may be double or single stranded. They  
CC further comprise sense and antisense regions, or alternatively are  
CC assembled from a sense oligonucleotide and an antisense oligonucleotide.  
CC Specifically, the siNAs include short interfering RNA (siRNA), double-  
CC stranded RNA, micro-RNA (miRNA) and short hairpin RNA (shRNA). The siNAs  
CC can be unmodified or chemically modified, can contain  
CC deoxyribonucleotides, and can be chemically synthesised, expressed from a  
CC vector or enzymatically synthesised. The invention also relates to kits  
CC for the in vitro or in vivo delivery of siNA; conjugates and/or complexes  
CC of siNA; and vectors that express siNA. The siNAs are used to modulate  
CC expression of the GAB2 gene in cells, tissue explants or organisms (e.g.,  
CC by ex vivo gene therapy), or in grafts and transplants for the treatment  
CC of a variety of conditions. They may be used for treating cancer,  
CC inflammation and allergies. The siNAs are also useful for drug screening,  
CC diagnosis, therapeutic target identification and validation, genetic  
CC engineering, pharmacogenomics, studying gene function, and gene mapping

CC (e.g., of single nucleotide polymorphisms). The human GAB2 gene is  
CC located on chromosome 11, more specifically to region 11q13.4. The human  
CC GAB2 siNAs have cytostatic, antiinflammatory and antiallergic activities.  
CC The present sequence represents the upper strand of a human GAB2-targeted  
CC double-stranded siNA, which is identical to the GAB2 transcript target  
CC sequence.  
XX  
SQ Sequence 19 BP; 5 A; 5 C; 8 G; 0 T; 1 U; 0 Other;  
Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.3e+02;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
OY 1794 TGCCATGCGTGTGCGCTGTC 1812  
DB 19 TGCCAGCGCTGTGCGCTGTC 1

RESULT 190  
ADF54436  
ID ADF54436 standard; RNA; 19 BP.  
XX  
AC ADF54436;  
XX  
DT 12-FEB-2004 (first entry)  
XX  
DE Human GAB2 short interfering nucleic acid lower sequence SEQ ID NO:509.  
XX  
KW RNA interference; short interfering nucleic acid; siNA;  
KW short interfering RNA; siRNA; double-stranded RNA; micro-RNA; miRNA;  
KW short hairpin RNA; shRNA; expression modulation; gene therapy;  
KW drug screening; diagnosis; therapeutic target identification;  
KW pharmacogenomics; gene function analysis; gene mapping; human;  
KW GRB2-associated binding protein; GAB2; cancer; inflammation; allergy;  
KW chromosome 11; cytostatic; antiinflammatory; antiallergic; ss.  
XX  
OS Synthetic.  
OS Homo sapiens.  
XX  
PN WO2003070903-A2.  
XX  
PD 28-AUG-2003.  
XX  
PF 18-FEB-2003; 2003WO-US004909.  
XX  
PR 20-FEB-2002; 2002US-0358580P.  
PR 11-MAR-2002; 2002US-0363124P.  
PR 06-JUN-2002; 2002US-0386782P.  
PR 29-AUG-2002; 2002US-0406784P.  
PR 05-SEP-2002; 2002US-0408378P.  
PR 09-SEP-2002; 2002US-0409293P.  
PR 15-JAN-2003; 2003US-0440129P.  
XX  
PA (RIBO-) RIBOZYME PHARM INC.  
XX  
PI Mcswiggen J, Beigelman L, Usman N;  
XX  
DR WPI; 2003-697611/66.  
XX  
PT New short interfering nucleic acid, useful e.g. for treatment and  
PT diagnosis of cancer, downregulates expression of the GRB2-associated  
PT binding protein gene.  
XX  
PS Example 3; SEQ ID NO 509; 140pp; English.  
XX  
CC The present invention relates to short interfering nucleic acids (siNA)  
CC which downregulate expression of the human GRB2-associated binding  
CC protein (GAB2) gene by RNA interference. The siNAs may or may not  
CC comprise ribonucleotides and may be double or single stranded. They  
CC further comprise sense and antisense regions, or alternatively are  
CC assembled from a sense oligonucleotide and an antisense oligonucleotide.  
CC Specifically, the siNAs include short interfering RNA (siRNA), double-  
CC stranded RNA, micro-RNA (miRNA) and short hairpin RNA (shRNA). The siNAs  
CC can be unmodified or chemically modified, can contain  
CC deoxyribonucleotides, and can be chemically synthesised, expressed from a  
CC vector or enzymatically synthesised. The invention also relates to kits  
CC for the in vitro or in vivo delivery of siNA; conjugates and/or complexes  
CC of siNA; and vectors that express siNA. The siNAs are used to modulate  
CC expression of the GAB2 gene in cells, tissue explants or organisms (e.g.,  
CC by ex vivo gene therapy), or in grafts and transplants for the treatment  
CC of a variety of conditions. They may be used for treating cancer,  
CC inflammation and allergies. The siNAs are also useful for drug screening,  
CC diagnosis, therapeutic target identification and validation, genetic  
CC engineering, pharmacogenomics, studying gene function, and gene mapping

CC can be unmodified or chemically modified, and can contain  
 CC deoxyribonucleotides, and can be chemically synthesised, expressed from a  
 CC vector or enzymatically synthesised. The invention also relates to kits  
 CC for the in vitro or in vivo delivery of siNA; conjugates and/or complexes  
 CC of siNA; and vectors that express siNA. The siNAs are used to modulate  
 CC expression of the GAB2 gene in cells, tissue explants or organisms (e.g.,  
 CC by ex vivo gene therapy), or in grafts and transplants for the treatment  
 CC of a variety of conditions. They may be used for treating cancer,  
 CC inflammation and allergies. The siNAs are also useful for drug screening,  
 CC diagnosis, therapeutic target identification and validation, genetic  
 CC engineering, pharmacogenomics, studying gene function, and gene mapping  
 CC (e.g., of single nucleotide polymorphisms). The human GAB2 gene is  
 CC located on chromosome 11, more specifically to region 11q13.4. The human  
 CC GAB2 siNAs have cytostatic, antinflammatory and antiallergic activities.  
 CC The present sequence represents the lower strand of a human GAB2-targeted  
 CC double-stranded siNA.  
 XX  
 SQ Sequence 19 BP; 1 A; 8 C; 5 G; 0 T; 5 U; 0 Other;  
 Query Match 0.6%; Score 15.8; DB 1; Length 19;  
 Best Local Similarity 63.2%; Pred. No. 1.3e+02;  
 Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;  
 QY 1794 TGGCATGCTGTGCTCGTGC 1812  
 Db 1 UGCCCAGCCUGGCCUGUC 19  
 RESULT 191  
 ADJ66170  
 ID ADJ66170 standard; RNA; 19 BP.  
 AC ADJ66170;  
 XX  
 DT 06-MAY-2004 (first entry)  
 DE Human TGFb-R transcript target sequence/siNA upper strand, SEQ ID NO:8.  
 XX  
 KW RNA interference; short interfering nucleic acid; siNA;  
 KW short interfering RNA; siRNA; double-stranded RNA; micro-RNA; miRNA;  
 KW short hairpin RNA; shRNA; expression modulation; gene therapy;  
 KW drug screening; diagnosis; therapeutic target identification;  
 KW pharmacogenomics; gene function analysis; gene mapping; human;  
 KW antidiabetic; nephrotropic; hepatotropic; cytostatic;  
 KW transforming growth factor beta receptor; TGFb; TGFb-R;  
 KW diabetic nephropathy; chronic liver disease; pulmonary fibrosis;  
 KW target sequence; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2003070197-A2.  
 XX  
 PD 28-AUG-2003.  
 XX  
 PF 11-FEB-2003; 2003WO-US007273.  
 XX  
 PR 20-FEB-2002; 2002US-0358580P.  
 PR 11-MAR-2002; 2002US-0363124P.  
 PR 06-JUN-2002; 2002US-0386782P.  
 PR 29-AUG-2002; 2002US-0406784P.  
 PR 05-SEP-2002; 2002US-0408378P.  
 PR 09-SEP-2002; 2002US-0409293P.  
 PR 12-NOV-2002; 2002US-0425559P.  
 PR 15-JAN-2003; 2003US-0440129P.  
 XX  
 PA (RIBO-) RIBOZYME PHARM INC.  
 XX  
 PI Mcswiggen J, Beigelman L;  
 XX  
 DR WPI; 2003-697557/66.  
 XX  
 PT New short interfering nucleic acid, useful e.g. for treatment and  
 diagnosis of diabetic nephropathy, which downregulates expression of the

PT transforming growth factor-beta receptor gene.  
 XX  
 XX Example 3; SEQ ID NO 8; 137pp; English.  
 CC  
 CC The invention relates to short interfering nucleic acids (siNA) which  
 CC downregulate expression of the human transforming growth factor beta  
 CC (TGFb) receptor (TGFb-R) gene by RNA interference. The siNAs may or may  
 CC not comprise ribonucleotides and may be double or single stranded. They  
 CC further comprise sense and antisense regions, or alternatively are  
 CC assembled from a sense oligonucleotide and an antisense oligonucleotide.  
 CC Specifically, the siNAs include short interfering RNA (siRNA), double-  
 CC stranded RNA, micro-RNA (miRNA) and short hairpin RNA (shRNA). The siNAs  
 CC can be unmodified or chemically modified, can contain  
 CC deoxyribonucleotides, and can be chemically synthesised, expressed from a  
 CC vector or enzymatically synthesised. The invention also relates to kits  
 CC for the in vitro or in vivo delivery of siNA; conjugates and/or complexes  
 CC of siNA; and vectors that express siNA. The siNAs are used to modulate  
 CC expression of the TGFb-R gene in cells, tissue explants or organisms  
 CC (e.g., by ex vivo gene therapy), or in grafts and transplants for the  
 CC treatment of a variety of conditions. They may be used for treating  
 CC diabetic nephropathy, chronic liver disease or pulmonary fibrosis. The  
 CC siNAs are also useful for drug screening, diagnosis, therapeutic target  
 CC identification and validation, genetic engineering, pharmacogenomics,  
 CC studying gene function, and gene mapping (e.g., of single nucleotide  
 CC polymorphisms). The present sequence represents the upper strand of a  
 CC human TGFb-R-targeted double-stranded siNA, which is identical to the  
 CC TGFb-R transcript target sequence.  
 XX  
 SQ Sequence 19 BP; 0 A; 7 C; 12 G; 0 T; 0 U; 0 Other;  
 Query Match 0.6%; Score 15.8; DB 1; Length 19;  
 Best Local Similarity 89.5%; Pred. No. 1.3e+02;  
 Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 651 CGGCAGCGCGCGCGCGGC 669  
 Db 1 CGGCAGCGCGCGCGCGGC 19  
 RESULT 192  
 ADJ66298/c  
 ID ADJ66298 standard; RNA; 19 BP.  
 AC ADJ66298;  
 XX  
 DT 06-MAY-2004 (first entry)  
 DE Human TGFb-R siNA lower strand, SEQ ID NO:136.  
 XX  
 KW RNA interference; short interfering nucleic acid; siNA;  
 KW short interfering RNA; siRNA; double-stranded RNA; micro-RNA; miRNA;  
 KW short hairpin RNA; shRNA; expression modulation; gene therapy;  
 KW drug screening; diagnosis; therapeutic target identification;  
 KW pharmacogenomics; gene function analysis; gene mapping; human;  
 KW antidiabetic; nephrotropic; hepatotropic; cytostatic;  
 KW transforming growth factor beta receptor; TGFb; TGFb-R;  
 KW diabetic nephropathy; chronic liver disease; pulmonary fibrosis; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2003070197-A2.  
 XX  
 PD 28-AUG-2003.  
 XX  
 PF 11-FEB-2003; 2003WO-US007273.  
 XX  
 PR 20-FEB-2002; 2002US-0358580P.  
 PR 11-MAR-2002; 2002US-0363124P.  
 PR 06-JUN-2002; 2002US-0386782P.  
 PR 29-AUG-2002; 2002US-0406784P.  
 PR 05-SEP-2002; 2002US-0408378P.  
 PR 09-SEP-2002; 2002US-0409293P.  
 PR 12-NOV-2002; 2002US-0425559P.

PR 15-JAN-2003; 2003US-0440129P.  
PA (RIBO-) RIBOZYME PHARM INC.  
XX  
PI Mcswiggen J, Beigelman L;  
XX  
XX WPI; 2003-697557/66.  
DR  
XX  
XX New short interfering nucleic acid, useful e.g. for treatment and  
PT diagnosis of diabetic nephropathy, which downregulates expression of the  
PT transforming growth factor-beta receptor gene.  
XX  
XX Example 3; SEQ ID NO 136; 137pp; English.  
PS  
XX  
XX The invention relates to short interfering nucleic acids (siNA) which  
CC downregulate expression of the human transforming growth factor beta  
CC (TGFβ) receptor (TGFβ-R) gene by RNA interference. The siNAs may or may  
CC not comprise ribonucleotides and may be double or single stranded. They  
CC further comprise sense and antisense regions, or alternatively are  
CC assembled from a sense oligonucleotide and an antisense oligonucleotide.  
CC Specifically, the siNAs include short interfering RNA (siRNA), double-  
CC stranded RNA, micro-RNA (miRNA) and short hairpin RNA (shRNA). The siNAs  
CC can be unmodified or chemically modified, can contain  
CC deoxyribonucleotides, and can be chemically synthesised, expressed from a  
CC vector or enzymatically synthesised. The invention also relates to kits  
CC for the in vitro or in vivo delivery of siNA; conjugates and/or complexes  
CC of siNA; and vectors that express siNA. The siNAs are used to modulate  
CC expression of the TGFβ-R gene in cells, tissue explants or organisms  
CC (e.g., by ex vivo gene therapy), or in grafts and transplants for the  
CC treatment of a variety of conditions. They may be used for treating  
CC diabetic nephropathy, chronic liver disease or pulmonary fibrosis. The  
CC siNAs are also useful for drug screening, diagnosis, therapeutic target  
CC identification and validation, genetic engineering, pharmacogenomics,  
CC studying gene function, and gene mapping (e.g., of single nucleotide  
CC polymorphisms). The present sequence represents the lower strand of a  
CC human TGFβ-R-targeted double-stranded siNA.  
XX  
XX  
SQ Sequence 19 BP; 0 A; 12 C; 7 G; 0 T; 0 U; 0 Other;  
Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.3e+02;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 651 CGGCAGCAGCGCGCGCGC 669  
Db 19 CGGCAGCAGCGCGCGCGC 1  
RESULT 193  
ADJ97270  
ID ADJ97270 standard; DNA; 19 BP.  
XX  
XX AC ADJ97270;  
XX  
XX DT 06-MAY-2004 (first entry)  
XX  
XX DE Human VEGF DNA sequence, a target for siRNA inhibition SeqID 43.  
XX  
XX KW human; ss; short interfering RNA; siRNA; angiogenesis;  
KW vascular endothelial growth factor; VEGF; VEGF receptor; Flt-1;  
KW Flk-1/KDR; kinase domain region; diabetic retinopathy;  
KW age-related macular degeneration; inflammatory disease; psoriasis;  
KW rheumatoid arthritis; cancer; breast; retinoblastoma; Wilm's tumour;  
KW lymphoma; cytostatic; antiangiogenic; ophthalmological; antiinflammatory;  
KW antipsoriatic; antirheumatic; antiarthritic.  
XX  
XX OS Homo sapiens.  
XX  
XX PN WO2004009769-A2.  
XX  
XX PD 29-JAN-2004.  
XX  
XX PF 18-JUL-2003; 2003WO-US022444.

XX  
PR 24-JUL-2002; 2002US-0398417P.  
PR 14-NOV-2002; 2002US-00294228.  
XX  
XX (UYPE-) UNIV PENNSYLVANIA.  
XX  
XX Tolentino MJ, Reich SJ;  
PI  
XX WPI; 2004-203472/19.  
DR  
XX  
XX Novel short interfering RNA (siRNA) comprises sense and antisense RNA  
PT strands, useful for inhibiting expression of human vascular endothelial  
PT growth factor mRNA, for treating angiogenic disease, e.g. diabetic  
PT retinopathy and cancer.  
XX  
XX Disclosure; SEQ ID NO 43; 218pp; English.  
PS  
XX This invention relates to novel compositions that comprise short  
CC interfering RNA (siRNA) molecules, which can be used to inhibit  
CC angiogenesis. Specifically, it refers to siRNAs that target and cause  
CC RNAi-induced degradation of mRNA from human vascular endothelial growth  
CC factor (VEGF), the VEGF receptor (Flt-1) and the Flk-1/KDR (kinase domain  
CC region) genes, as well as mutants derived thereof. The present invention  
CC describes sense and antisense RNA strands that form an RNA duplex and  
CC bind to the target mRNA, such that expression is inhibited and the target  
CC degraded. As such, siRNA administered in combination with a therapeutic  
CC agent is useful for treating diseases associated with angiogenesis and  
CC the overexpression of VEGF, which include diabetic retinopathy, age-  
CC related macular degeneration, inflammatory disease, psoriasis and  
CC rheumatoid arthritis. Furthermore, it can be used to treat various  
CC cancers including breast, retinoblastoma, Wilm's tumour and lymphoma.  
CC Accordingly, these compositions exhibit cytostatic, antiangiogenic,  
CC ophthalmological, antiinflammatory, antipsoriatic, antirheumatic and  
CC antiarthritic activities. This oligonucleotide is a human VEGF DNA oligo,  
CC a target for siRNA inhibition of the invention.  
XX  
XX SQ Sequence 19 BP; 2 A; 8 C; 6 G; 3 T; 0 U; 0 Other;  
Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.3e+02;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 2755 GTGGTCCAGGCTGCTCTC 2773  
Db 1 GTGGTCCAGGCTGACCC 19  
RESULT 194  
ADL33847/c  
ID ADL33847 standard; DNA; 19 BP.  
XX  
XX AC ADL33847;  
XX  
XX DT 20-MAY-2004 (first entry)  
XX  
XX DE Oligo #1 for microarray gene-chip detection method.  
XX  
XX KW ss; bar code; gene chip; microarray; diagnosis.  
XX  
XX OS Unidentified.  
XX  
XX PN CN1398987-A.  
XX  
XX PD 26-FEB-2003.  
XX  
XX PF 29-AUG-2002; 2002CN-00136710.  
XX  
XX PR 29-AUG-2002; 2002CN-00136710.  
XX  
XX PA (UYSH-) UNIV SHANGHAI JIAOTONG.  
XX  
XX PI Liu X, Qin S, Liu J;  
XX

DR WPI; 2003-457927/44.  
XX Preparation of bar code-type gene chip.  
PT Disclosure; Page 5; 7pp; Chinese.  
XX  
CC The invention relates to a preparation process for a bar code-type gene  
CC chip which involve fixing oligonucleotide segments with specific base  
CC sequence onto the surface of substrate in a microarray mode. The forward  
CC primer upstream sequence with mononucleotide site specificity to be  
CC detected is made to complement and pair with bar code, the middle is the  
CC limited enzyme incising site, and the downstream sequence is made to pair  
CC with the target sequence. There is a biotin or a fluorescent group marker  
CC in the 5'-end, and a nucleotide incapable of pairing with target sequence  
CC is introduced to the place of 1-4 nucleotides apart from the 3'-end  
CC upstream through PCR, purification, enzyme incising and hybrid elution  
CC with the bar code gene chip. The bar code base sequence has composition  
CC independent on target nucleic acid to be detected and has detected  
CC segment length within 30 nucleotides, and this reduces the cross  
CC hybridizing and error hybridizing. This sequence corresponds to an  
CC oligonucleotide sequence used in the invention.  
XX  
SQ Sequence 19 BP; 2 A; 6 C; 3 G; 8 T; 0 U; 0 Other;  
  
Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.3e+02;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 2370 GACAGACAGAAAGCCAGAG 2388  
DB 19 GACAGACAGAAAGCTTGAG 1  
|||||  
  
RESULT 195  
ADU64527  
ID ADU64527 standard; RNA; 19 BP.  
XX  
AC ADU64527;  
XX  
DT 27-JAN-2005 (first entry)  
XX  
DE Human MAP kinase 1/ ERK2 siRNA #8.  
XX  
KW RNA interference; mitogen activated protein kinase inhibitor;  
KW inflammation; immunosuppressive; immune disorder; autoimmune disease;  
KW allergy; antiallergic; cytostatic; neoplasm; cancer; ss; siRNA;  
KW gene silencing; small interfering RNA; MAP kinase inhibitor.  
XX  
OS Homo sapiens.  
XX  
PN WO2004097020-A2.  
XX  
PD 11-NOV-2004.  
XX  
PF 23-APR-2004; 2004WO-US012517.  
XX  
PR 25-APR-2003; 2003US-00424339.  
PR 30-APR-2003; 2003US-00427160.  
PR 23-MAY-2003; 2003US-00444853.  
PR 23-OCT-2003; 2003US-00693059.  
PR 24-NOV-2003; 2003US-00720448.  
PR 14-JAN-2004; 2004US-00757803.  
XX  
PA (SIRN-) SIRNA THERAPEUTICS INC.  
XX  
PI Mcswiggen J, Beigelman L, Usman N, Haerberli P, Chowrira B;  
PI Polisky B;  
XX  
WPI; 2005-012649/01.  
XX  
DR Novel short interfering nucleic acid molecule useful for inhibiting  
XX PT mitogen activated protein kinase gene expression e.g., c-JUN associated  
XX PT with diseases e.g., inflammatory disease or autoimmune disease.  
XX  
PS Disclosure; SEQ ID NO 171; 322pp; English.  
XX  
CC The invention relates to a chemically synthesized double stranded short  
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a c  
CC -JUN RNA through RNA interference (RNAi), where one strand of the siNA  
CC molecule comprises nucleotide sequence having sufficient complementarity  
CC to the c-JUN RNA for the siNA molecule to direct cleavage of the c-JUN  
CC RNA through RNA interference. (I) is useful for inhibiting mitogen  
CC activated protein kinase gene (e.g., c-JUN, JNK1, JNK2, p38, ERK1 or  
CC ERK2) expression associated with diseases e.g., inflammatory disease,  
CC autoimmune disease, allergy, cancer. (I) exhibits improved RNA  
CC interference activity and nuclease resistance. The present sequence  
CC represents a human MAP kinase 1/ ERK2 siRNA.  
XX  
SQ Sequence 19 BP; 1 A; 7 C; 10 G; 0 T; 1 U; 0 Other;  
  
Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.3e+02;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 650 GCGGCAGCAGCGCGCGCG 668  
DB 1 GCGGCUGCACCAGCGCGCGG 19  
|||||  
  
RESULT 196  
ADU64690/c  
ID ADU64690 standard; RNA; 19 BP.  
XX  
AC ADU64690;  
XX  
DT 27-JAN-2005 (first entry)  
XX  
DE Human MAP kinase 1/ ERK2 siRNA #171.  
XX  
KW RNA interference; mitogen activated protein kinase inhibitor;  
KW inflammation; immunosuppressive; immune disorder; autoimmune disease;  
KW allergy; antiallergic; cytostatic; neoplasm; cancer; ss; siRNA;  
KW gene silencing; small interfering RNA; MAP kinase inhibitor.  
XX  
OS Homo sapiens.  
XX  
PN WO2004097020-A2.  
XX  
PD 11-NOV-2004.  
XX  
PF 23-APR-2004; 2004WO-US012517.  
XX  
PR 25-APR-2003; 2003US-00424339.  
PR 30-APR-2003; 2003US-00427160.  
PR 23-MAY-2003; 2003US-00444853.  
PR 23-OCT-2003; 2003US-00693059.  
PR 24-NOV-2003; 2003US-00720448.  
PR 14-JAN-2004; 2004US-00757803.  
XX  
PA (SIRN-) SIRNA THERAPEUTICS INC.  
XX  
PI Mcswiggen J, Beigelman L, Usman N, Haerberli P, Chowrira B;  
PI Polisky B;  
XX  
WPI; 2005-012649/01.  
XX  
DR Novel short interfering nucleic acid molecule useful for inhibiting  
XX PT mitogen activated protein kinase gene expression e.g., c-JUN associated  
XX PT with diseases e.g., inflammatory disease or autoimmune disease.  
XX  
PS Disclosure; SEQ ID NO 171; 322pp; English.  
XX  
CC The invention relates to a chemically synthesized double stranded short  
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a c  
CC -JUN RNA through RNA interference (RNAi), where one strand of the siNA  
CC molecule comprises nucleotide sequence having sufficient complementarity

XX Disclosure; SEQ ID NO 8; 322pp; English.  
PS  
XX  
CC The invention relates to a chemically synthesized double stranded short  
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a c  
CC -JUN RNA through RNA interference (RNAi), where one strand of the siNA  
CC molecule comprises nucleotide sequence having sufficient complementarity  
CC to the c-JUN RNA for the siNA molecule to direct cleavage of the c-JUN  
CC RNA through RNA interference. (I) is useful for inhibiting mitogen  
CC activated protein kinase gene (e.g., c-JUN, JNK1, JNK2, p38, ERK1 or  
CC ERK2) expression associated with diseases e.g., inflammatory disease,  
CC autoimmune disease, allergy, cancer. (I) exhibits improved RNA  
CC interference activity and nuclease resistance. The present sequence  
CC represents a human MAP kinase 1/ ERK2 siRNA.  
XX  
SQ Sequence 19 BP; 1 A; 7 C; 10 G; 0 T; 1 U; 0 Other;  
  
Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.3e+02;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 650 GCGGCAGCAGCGCGCGCG 668  
DB 1 GCGGCUGCACCAGCGCGCGG 19  
|||||  
  
RESULT 196  
ADU64690/c  
ID ADU64690 standard; RNA; 19 BP.  
XX  
AC ADU64690;  
XX  
DT 27-JAN-2005 (first entry)  
XX  
DE Human MAP kinase 1/ ERK2 siRNA #171.  
XX  
KW RNA interference; mitogen activated protein kinase inhibitor;  
KW inflammation; immunosuppressive; immune disorder; autoimmune disease;  
KW allergy; antiallergic; cytostatic; neoplasm; cancer; ss; siRNA;  
KW gene silencing; small interfering RNA; MAP kinase inhibitor.  
XX  
OS Homo sapiens.  
XX  
PN WO2004097020-A2.  
XX  
PD 11-NOV-2004.  
XX  
PF 23-APR-2004; 2004WO-US012517.  
XX  
PR 25-APR-2003; 2003US-00424339.  
PR 30-APR-2003; 2003US-00427160.  
PR 23-MAY-2003; 2003US-00444853.  
PR 23-OCT-2003; 2003US-00693059.  
PR 24-NOV-2003; 2003US-00720448.  
PR 14-JAN-2004; 2004US-00757803.  
XX  
PA (SIRN-) SIRNA THERAPEUTICS INC.  
XX  
PI Mcswiggen J, Beigelman L, Usman N, Haerberli P, Chowrira B;  
PI Polisky B;  
XX  
WPI; 2005-012649/01.  
XX  
DR Novel short interfering nucleic acid molecule useful for inhibiting  
XX PT mitogen activated protein kinase gene expression e.g., c-JUN associated  
XX PT with diseases e.g., inflammatory disease or autoimmune disease.  
XX  
PS Disclosure; SEQ ID NO 171; 322pp; English.  
XX  
CC The invention relates to a chemically synthesized double stranded short  
CC interfering nucleic acid (siNA) molecule (I) that directs cleavage of a c  
CC -JUN RNA through RNA interference (RNAi), where one strand of the siNA  
CC molecule comprises nucleotide sequence having sufficient complementarity

CC to the c-JUN RNA for the siRNA molecule to direct cleavage of the c-JUN  
CC RNA through RNA interference. (I) is useful for inhibiting mitogen  
CC activated protein kinase gene (e.g., c-JUN, JNK1, JNK2, p38, ERK1 or  
CC ERK2) expression associated with diseases e.g., inflammatory disease,  
CC autoimmune disease, allergy, cancer. (I) exhibits improved RNA  
CC interference activity and nuclease resistance. The present sequence  
CC represents a human MAP Kinase 1/ ERK2 siRNA.

XX  
SQ Sequence 19 BP; 1 A; 10 C; 7 G; 0 T; 1 U; 0 Other;

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.3e+02;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCGACGACGCGCGCGG 668  
|||||  
DB 19 GCGGCTGCACGCGCGCGG 1

RESULT 197  
ADZ78556  
ID ADZ78556 standard; RNA; 19 BP.

XX  
AC ADZ78556;

XX  
DT 14-JUL-2005 (first entry)

XX  
DE K-Ras 2 siRNA target sequence SEQ ID NO 66.

XX  
KW cytostatic; gene therapy; gene expression; RNA interference;  
KW antisense therapy; cancer; cytostatic; neoplasm; hyperproliferation;  
KW K-Ras 2; ss.

XX  
OS Homo sapiens.

XX  
PN WO2005040379-A2.

XX  
PD 06-MAY-2005.

XX  
PF 20-AUG-2004; 2004WO-US027333.

XX  
PR 23-OCT-2003; 2003US-00693059.

PR  
PR 24-NOV-2003; 2003US-00720448.

PR  
PR 03-DEC-2003; 2003US-00727780.

PR  
PR 14-JAN-2004; 2004US-00757803.

PR  
PR 10-FEB-2004; 2004US-0543480P.

PR  
PR 13-FEB-2004; 2004US-00780447.

PR  
PR 16-APR-2004; 2004US-00826966.

PR  
PR 30-APR-2004; 2004WO-US013456.

PR  
PR 24-MAY-2004; 2004WO-US016390.

XX  
PA (SIRN-) SIRNA THERAPEUTICS INC.

XX  
PI Mcswiggen J;

XX  
DR WPI; 2005-333508/34.

XX  
PT New chemically synthesized double stranded short interfering nucleic acid  
PT molecule that directs cleavage of N-RAS RNA via RNA interference, useful  
PT for modulating RAS gene expression.

XX  
PS Example 3; SEQ ID NO 66; 204pp; English.

XX  
CC The invention describes a chemically synthesized double stranded short  
CC interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a N  
CC -RAS RNA via RNA interference (RNAi), where each strand of the siRNA  
CC molecule is 18-23 nucleotides in length, and one strand of the siRNA  
CC molecule comprises nucleotide sequence complementary to the N-RAS RNA for  
CC the siRNA molecule to direct cleavage of the N-RAS RNA via RNA  
CC interference. Also disclosed are an expression vector comprising a  
CC nucleic acid sequence encoding an siRNA molecule; and a mammalian cell  
CC comprising the expression vector. The siRNA molecule (I) is useful for  
CC modulating RAS gene expression. It is also useful for modulating the

CC expression and activity of other genes in the pathways of RAS. The siRNA  
CC molecule is also useful for diagnosing or treating diseases and  
CC conditions that respond to the modulation of RAS gene expression or  
CC activity, e.g. cancer or other proliferative diseases, disorders, or  
CC conditions. This sequence represents a human K-Ras 2 siRNA target  
CC sequence for gene silencing by RNA interference.

XX  
SQ Sequence 19 BP; 2 A; 6 C; 10 G; 0 T; 1 U; 0 Other;

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.3e+02;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 657 CAGCGCGCGCGCGCGGCG 675  
|||||  
DB 1 CAGCGCGCGCGCGGCGG 19

RESULT 198  
ADZ78631/C  
ID ADZ78631 standard; RNA; 19 BP.

XX  
AC ADZ78631;

XX  
DT 14-JUL-2005 (first entry)

XX  
DE K-Ras 2 siRNA target sequence SEQ ID NO 141.

XX  
KW cytostatic; gene therapy; gene expression; RNA interference;  
KW antisense therapy; cancer; cytostatic; neoplasm; hyperproliferation;  
KW K-Ras 2; ss.

XX  
OS Homo sapiens.

XX  
PN WO2005040379-A2.

XX  
PD 06-MAY-2005.

XX  
PF 20-AUG-2004; 2004WO-US027333.

XX  
PR 23-OCT-2003; 2003US-00693059.

PR  
PR 24-NOV-2003; 2003US-00720448.

PR  
PR 03-DEC-2003; 2003US-00727780.

PR  
PR 14-JAN-2004; 2004US-00757803.

PR  
PR 10-FEB-2004; 2004US-0543480P.

PR  
PR 13-FEB-2004; 2004US-00780447.

PR  
PR 16-APR-2004; 2004US-00826966.

PR  
PR 30-APR-2004; 2004WO-US013456.

PR  
PR 24-MAY-2004; 2004WO-US016390.

XX  
PA (SIRN-) SIRNA THERAPEUTICS INC.

XX  
PI Mcswiggen J;

XX  
DR WPI; 2005-333508/34.

XX  
PT New chemically synthesized double stranded short interfering nucleic acid  
PT molecule that directs cleavage of N-RAS RNA via RNA interference, useful  
PT for modulating RAS gene expression.

XX  
PS Example 3; SEQ ID NO 141; 204pp; English.

XX  
CC The invention describes a chemically synthesized double stranded short  
CC interfering nucleic acid (siRNA) molecule (I) that directs cleavage of a N  
CC -RAS RNA via RNA interference (RNAi), where each strand of the siRNA  
CC molecule is 18-23 nucleotides in length, and one strand of the siRNA  
CC molecule comprises nucleotide sequence complementary to the N-RAS RNA for  
CC the siRNA molecule to direct cleavage of the N-RAS RNA via RNA  
CC interference. Also disclosed are an expression vector comprising a  
CC nucleic acid sequence encoding an siRNA molecule; and a mammalian cell  
CC comprising the expression vector. The siRNA molecule (I) is useful for  
CC modulating RAS gene expression. It is also useful for modulating the  
CC expression and activity of other genes in the pathways of RAS. The siRNA





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PI Usman N, Mcswiggen J;
XX WPI; 2005-356234/36.
XX
XX New short interfering nucleic acid molecule that directs cleavage of an
XX early growth response RNA, useful for treating cancer, ocular disease,
XX proliferative condition, renal disease or arteriosclerosis.
XX
XX Claim 33; SEQ ID NO 200; 200pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule that directs cleavage of an
XX early growth response (Egr-1) RNA via RNA interference (RNAi). The
XX invention also relates to a composition comprising the siNA molecule with
XX a pharmaceutical carrier or diluent. The siNA molecule is useful for
XX treating tumor angiogenesis and cancer, e.g., breast, lung, bladder,
XX skin, and brain cancer, epithelial carcinoma, and melanoma. The molecule
XX is also useful for treating diabetic retinopathy, age related macular
XX degeneration, neovascular glaucoma, myopic degeneration, arthritis,
XX psoriasis, endometriosis, female reproductive disorders, verruca
XX vulgaris, angiofibroma, tuberous sclerosis, port-wine stains, Sturge-
XX Weber syndrome, Klippel-Trenaunay-Weber syndrome, Osler-Weber-Rendu
XX syndrome, renal disease, polycystic kidney disease, restenosis and
XX arteriosclerosis. This sequence represents an Egr-1 siRNA molecule of the
XX invention.
XX
XX Sequence 19 BP; 0 A; 6 C; 7 G; 0 T; 6 U; 0 Other;
XX
XX Query Match 0.6%; Score 15.8; DB 1; Length 19;
XX Best Local Similarity 89.5%; Pred. No. 1.3e+02;
XX Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
QY 645 CAGCAGCGGCAGCAGCGGC 663
DB 19 CAGCAGCAGCAGCAGCAGC 1
XX
RESULT 201
AEA34391/c
ID AEA34391 standard; RNA; 19 BP.
XX
AC AEA34391;
XX
DT 11-AUG-2005 (first entry)
XX
DE Human TRPM7 target and upper siRNA oligonucleotide SEQ ID NO:11.
XX
XX short interfering RNA; siRNA; RNA interference; gene silencing;
XX neuroprotective; cardiovascular-gen.; antidiabetic; nephrotropic;
XX antibacterial; nootropic; cerebroprotective; vasotropic;
XX antiparkinsonian; anticonvulsant; vulnerary; neurological disease;
XX degeneration; ds.
XX
OS Homo sapiens.
OS Synthetic.
XX
PN US2005124567-A1.
XX
XX 09-JUN-2005.
XX
XX 01-JUL-2004; 2004US-00883218.
XX
XX 18-MAY-2001; 2001US-0292217P.
XX
XX 20-JUL-2001; 2001US-0306883P.
XX
XX 13-AUG-2001; 2001US-0311865P.
XX
XX 20-FEB-2002; 2002US-0358580P.
XX
XX 06-MAR-2002; 2002US-0362016P.
XX
XX 11-MAR-2002; 2002US-0363124P.
XX
XX 20-MAY-2002; 2002WO-US015876.
XX
XX 06-JUN-2002; 2002US-0386782P.
XX
XX 29-AUG-2002; 2002US-0406784P.
XX
XX 05-SEP-2002; 2002US-0408378P.
XX
XX 09-SEP-2002; 2002US-0409293P.
XX
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PR 15-JAN-2003; 2003US-0440129P.
PR 20-FEB-2003; 2003WO-US005028.
PR 20-FEB-2003; 2003WO-US005346.
PR 30-APR-2003; 2003US-00427160.
PR 23-MAY-2003; 2003US-00444853.
PR 23-OCT-2003; 2003US-00693059.
PR 24-NOV-2003; 2003US-00720448.
PR 03-DEC-2003; 2003US-00727780.
PR 14-JAN-2004; 2004US-00757803.
PR 10-FEB-2004; 2004US-0543480P.
PR 13-FEB-2004; 2004US-00780447.
PR 16-APR-2004; 2004US-00826966.
PR 30-APR-2004; 2004WO-US013456.
PR 24-MAY-2004; 2004WO-US016390.
XX
XX (SIRN-) SIRNA THERAPEUTICS INC.
XX
XX Mcswiggen J, Haerberli P;
XX WPI; 2005-417026/42.
XX
XX New chemically synthesized double stranded short interfering nucleic acid
XX having complementarity to TRPM7 RNA to direct cleavage of TRPM7 RNA by
XX RNA interference, useful for modulating expression of TRPM7 gene.
XX
XX Claim 33; SEQ ID NO 11; 98pp; English.
XX
XX The invention relates to a chemically synthesized double stranded short
XX interfering nucleic acid (siNA) molecule (1) directing cleavage of a
XX transient receptor potential cation channel subfamily M member 7 (TRPM7)
XX RNA through RNA interference (RNAi). Each strand of (1) is about 18 to
XX about 23 nucleotides in length, and one strand comprises a nucleotide
XX sequence having sufficient complementarity to the TRPM7 RNA to be
XX directly cleaved. The human TRPM7 gene is located on chromosome 15, more
XX specifically to region 15q21. Also described: (1) a composition (C1)
XX comprising (1) and a carrier or diluent; (2) a conjugate and/or complexes
XX of (1); (3) a kit for modulating the expression of TRPM7 gene; (4) a cell
XX comprising (1); (5) a method for synthesizing (1); (6) a method for
XX screening (1); and (7) an expression vector comprising (1). (1) is useful
XX for modulating the expression of the TRPM7 gene, and so can be used for
XX treating diseases and conditions such as neurological disease or
XX degenerative disease e.g. anoxia, amyotrophic lateral sclerosis, ataxia
XX telangiectasia, cephalic disorders, cerebral hypoxia, congenital
XX myopathy, diabetic neuropathy, Fabry's disease, Lyme disease, Pompe
XX disease, spinal cord injury, stroke, Alzheimer's disease, dementia,
XX chronic epilepsy, Parkinson's disease, Huntington's disease and central
XX nervous system injury. (1) is useful as reagents in a variety of
XX applications such as therapeutic, diagnostic, target validation, genomic
XX discovery, genetic engineering and pharmacogenomic application. (1) has
XX increased resistance to nuclease degradation and improved cellular
XX uptake. The present sequence represents a TRPM7 target and upper (sense)
XX siRNA oligonucleotide from the present invention.
XX
XX Sequence 19 BP; 4 A; 2 C; 12 G; 0 T; 1 U; 0 Other;
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.3e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 289 CACCTCTCTCTCTCTCTCG 307
Db 19 CACCTCTCTCTCTCTCGCG 1

RESULT 202
AEA44315
ID AEA44315 standard; RNA; 19 BP.
XX
XX AEA44315;
XX
XX 11-AUG-2005 (first entry)
XX
XX Human TRPM7 lower siRNA oligonucleotide SEQ ID NO:413.
```

XX short interfering RNA: siRNA: RNA interference; gene silencing;  
KW neuroprotective; cardiovascular-gen.; antidiabetic; target validation, genomic  
KW antibacterial; nootropic; cerebroprotective; vasotropic;  
KW antiparkinsonian; anticonvulsant; vulnery; neurological disease;  
KW degeneration; ds.  
XX  
XX Homo sapiens.  
OS Synthetic.  
XX US2005124567-A1.  
XX  
XX 09-JUN-2005.  
XX  
XX 01-JUL-2004; 2004US-00983218.  
XX  
XX 18-MAY-2001; 2001US-0292217P.  
PR 20-JUL-2001; 2001US-0306883P.  
PR 13-AUG-2001; 2001US-0311865P.  
PR 20-FEB-2002; 2002US-0358580P.  
PR 06-MAR-2002; 2002US-0362016P.  
PR 11-MAR-2002; 2002US-0363124P.  
PR 20-MAY-2002; 2002WO-US015876.  
PR 06-JUN-2002; 2002US-0386782P.  
PR 29-AUG-2002; 2002US-0406784P.  
PR 05-SEP-2002; 2002US-0408378P.  
PR 09-SEP-2002; 2002US-0409293P.  
PR 15-JAN-2003; 2003US-0440129P.  
PR 20-FEB-2003; 2003WO-US005028.  
PR 20-FEB-2003; 2003WO-US005346.  
PR 30-APR-2003; 2003US-00427160.  
PR 23-MAY-2003; 2003US-00444853.  
PR 23-OCT-2003; 2003US-00693059.  
PR 24-NOV-2003; 2003US-00720448.  
PR 03-DEC-2003; 2003US-0072780.  
PR 14-JAN-2004; 2004US-00757803.  
PR 10-FEB-2004; 2004US-0543480P.  
PR 13-FEB-2004; 2004US-00780447.  
PR 16-APR-2004; 2004US-00825966.  
PR 30-APR-2004; 2004WO-US013456.  
PR 24-MAY-2004; 2004WO-US016390.  
XX  
XX (SIRN-) SIRNA THERAPEUTICS INC.  
XX  
XX Mcswiggen J, Haerberli P;  
XX  
XX WPI; 2005-417026/42.  
XX  
XX New chemically synthesized double stranded short interfering nucleic acid  
PT having complementarity to TRPM7 RNA to direct cleavage of TRPM7 RNA by  
PT RNA interference, useful for modulating expression of TRPM7 gene.  
XX  
XX Claim 33; SEQ ID NO 413; 98pp; English.  
XX  
XX The invention relates to a chemically synthesized double stranded short  
CC interfering nucleic acid (siRNA) molecule (I) directing cleavage of a  
CC transient receptor potential cation channel subfamily M member 7 (TRPM7)  
CC RNA through RNA interference (RNAi). Each strand of (I) is about 18 to  
CC about 23 nucleotides in length, and one strand comprises a nucleotide  
CC sequence having sufficient complementarity to the TRPM7 RNA to be  
CC directly cleaved. The human TRPM7 gene is located on chromosome 15, more  
CC specifically to region 15q21. Also described: (1) a composition (C1)  
CC comprising (I) and a carrier or diluent; (2) a conjugate and/or complexes  
CC of (1); (3) a kit for modulating the expression of TRPM7 gene; (4) a cell  
CC comprising (I); (5) a method for synthesizing (I); (6) a method for  
CC screening (I); and (7) an expression vector comprising (I). (I) is useful  
CC for modulating the expression of the TRPM7 gene, and so can be used for  
CC treating diseases and conditions such as neurological disease or  
CC degenerative disease e.g. anoxia, amyotrophic lateral sclerosis, ataxia  
CC telangiectasia, cephalic disorders, cerebral hypoxia, congenital  
CC myopathy, diabetic neuropathy, Fabry's disease, Lyme disease, Pompe  
CC disease, spinal cord injury, stroke, Alzheimer's disease, dementia,  
CC chronic epilepsy, Parkinson's disease, Huntington's disease and central

CC nervous system injury. (I) is useful as reagents in a variety of  
CC applications such as therapeutic, diagnostic, target validation, genomic  
CC discovery, genetic engineering and pharmacogenomic application. (I) has  
CC increased resistance to nuclease degradation and improved cellular  
CC uptake. The present sequence represents a TRPM7 lower (antisense) siRNA  
CC oligonucleotide from the present invention.  
XX  
XX Sequence 19 BP; 1 A; 12 C; 2 G; 0 T; 4 U; 0 Other;  
SQ  
Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 68.4%; Pred. No. 1.3e+02;  
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;  
QY 289 CACCTCCTCCTCCTCTCTCG 307  
Db 1 CACCCUCCUCCUCCUCCGCG 19  
RESULT 203  
AEB43393  
ID AEB43393 standard; RNA; 19 BP.  
XX  
AC AEB43393;  
XX  
DT 22-SEP-2005 (first entry)  
XX  
DE Novel human Egr-1 gene-targeting siRNA sequence SeqID26.  
KW antiarthritic; vasotropic; antiinflammatory; ophthalmological;  
KW antidiabetic; antipsoriatic; cerebroprotective; antiarteriosclerotic;  
KW cancer; ocular disease; tumor; angiogenesis; angiogenesis;  
KW hyperproliferation; diabetic retinopathy; macular degeneration; aging;  
KW arthritis; psoriasis; sturge-weber syndrome; restenosis;  
KW arteriosclerosis; RNA interference; gene silencing;  
KW short interfering RNA; siRNA; cytostatic; drug screening; diagnostic;  
KW genetic engineering; gene mapping; Egr-1; ss.  
XX Homo sapiens.  
XX US2005153915-A1.  
XX  
XX 14-JUL-2005.  
XX  
XX 19-AUG-2004; 2004US-00922544.  
XX  
XX 18-MAY-2001; 2001US-0292217P.  
PR 20-JUL-2001; 2001US-0306883P.  
PR 13-AUG-2001; 2001US-0311865P.  
PR 20-FEB-2002; 2002US-0358580P.  
PR 06-MAR-2002; 2002US-0362016P.  
PR 11-MAR-2002; 2002US-0363124P.  
PR 20-MAY-2002; 2002WO-US015876.  
PR 06-JUN-2002; 2002US-0386782P.  
PR 29-AUG-2002; 2002US-0406784P.  
PR 05-SEP-2002; 2002US-0408378P.  
PR 09-SEP-2002; 2002US-0409293P.  
PR 15-JAN-2003; 2003US-0440129P.  
PR 20-FEB-2003; 2003WO-US005028.  
PR 20-FEB-2003; 2003WO-US005346.  
PR 30-APR-2003; 2003US-00427160.  
PR 23-MAY-2003; 2003US-00444853.  
PR 23-OCT-2003; 2003US-0512701P.  
PR 23-OCT-2003; 2003US-00693059.  
PR 24-NOV-2003; 2003US-00720448.  
PR 03-DEC-2003; 2003US-0072780.  
PR 14-JAN-2004; 2004US-00757803.  
PR 10-FEB-2004; 2004US-0543480P.  
PR 13-FEB-2004; 2004US-00780447.  
PR 16-APR-2004; 2004US-00825966.  
PR 30-APR-2004; 2004WO-US013456.  
PR 24-MAY-2004; 2004WO-US016390.  
XX  
XX (SIRN-) SIRNA THERAPEUTICS INC.  
XX  
XX

XX USman N, Mcswiggen J;  
 XX WPI; 2005-505469/51.  
 XX  
 XX Novel chemically synthesized double-stranded short interfering nucleic  
 PT acid molecule directing cleavage of early growth response-1 RNA by RNA  
 PT interference, useful in treating cancer, ocular disease or restenosis.  
 XX  
 XX Claim 33; SEQ ID NO 26; 218pp; English.  
 XX  
 CC The invention relates to chemically synthesized short interfering nucleic  
 CC acids (siRNAs) which downregulate expression of the Egr-1 gene by RNA  
 CC interference. The siRNAs may or may not comprise ribonucleotides, can  
 CC contain deoxyribonucleotides, can be chemically modified and may be  
 CC double or single stranded. They further comprise sense and antisense  
 CC regions, or alternatively are assembled from a sense oligonucleotide and  
 CC an antisense oligonucleotide. Specifically, the siRNAs include short  
 CC interfering RNA (siRNA), double-stranded RNA, micro-RNA (miRNA) and short  
 CC hairpin RNA (shRNA). The invention also relates to pharmaceutical  
 CC compositions comprising an siRNA targeted to the Human Egr-1 mRNA. The  
 CC invention further discloses expression vectors and host cells comprising  
 CC an siRNA of the invention. The siRNAs are used to modulate expression of  
 CC the Egr-1 gene in cells, tissue explants or organisms (for example by ex  
 CC vivo gene therapy), or in grafts and transplants for the treatment of a  
 CC variety of conditions. The siRNAs may be useful for the development of  
 CC compounds with a cytostatic, antiarthritic, vasotropic, antiinflammatory,  
 CC ophthalmological, antidiabetic, antipsoriatic, cerebroprotective or  
 CC antiarteriosclerotic activity acting by RNA interference. They may be  
 CC used in the treatment of cancer (for example colorectal cancer,  
 CC adenocarcinoma, lymphoma and glioma), ocular disease (for example toxic  
 CC conjunctivitis, bacterial keratitis, uveitic glaucoma and squamous cell  
 CC carcinoma), tumor angiogenesis, and proliferative conditions such as  
 CC diabetic retinopathy, macular degeneration, age related macular  
 CC degeneration, arthritis, psoriasis, Sturge Weber syndrome, restenosis  
 CC and/or arteriosclerosis. The siRNAs may also be used in drug screening,  
 CC diagnosis, therapeutic target identification and validation, genetic  
 CC engineering, pharmacogenomics, studying gene function and gene mapping  
 CC (for example of single nucleotide polymorphisms). The present sequence is  
 CC that of a human Egr-1 gene-targeting siRNA of the invention.  
 XX  
 XX Sequence 19 BP; 6 A; 7 C; 6 G; 0 T; 0 U; 0 Other;  
 SQ  
 Query Match 0.6%; Score 15.8; DB 1; Length 19;  
 Best Local Similarity 89.5%; Pred. No. 1.3e+02;  
 Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 Qy 645 CAGCAGCGCGCAGCAGCGC 663  
 Db 1 CAGCAGCAGCAGCAGCAGC 19  
 RESULT 204  
 AEB43567/c  
 ID AEB43567 standard; RNA; 19 BP.  
 XX  
 AC AEB43567;  
 XX  
 DT 22-SEP-2005 (first entry)  
 XX  
 DE Novel human Egr-1 gene-targeting siRNA sequence SeqID200.  
 XX  
 KW antiarthritic; vasotropic; antiinflammatory; ophthalmological;  
 KW antidiabetic; antipsoriatic; cerebroprotective; antiarteriosclerotic;  
 KW cancer; ocular disease; tumor; angiogenesis; angiogenesis;  
 KW hyperproliferation; diabetic retinopathy; macular degeneration; aging;  
 KW arthritis; psoriasis; sturge-weber syndrome; restenosis;  
 KW arteriosclerosis; RNA interference; gene silencing;  
 KW short interfering RNA; siRNA; cytostatic; drug screening; diagnostic;  
 KW genetic engineering; gene mapping; Egr-1; ss.  
 XX  
 OS Homo sapiens.  
 XX

US2005153915-A1.  
 14-JUL-2005.  
 19-AUG-2004; 2004US-00922544.  
 18-MAY-2001; 2001US-0292217P.  
 20-JUL-2001; 2001US-0306883P.  
 13-AUG-2001; 2001US-0311865P.  
 20-FEB-2002; 2002US-0358580P.  
 06-MAR-2002; 2002US-0362016P.  
 11-MAR-2002; 2002US-0363124P.  
 20-MAY-2002; 2002WO-US015876.  
 06-JUN-2002; 2002US-0386782P.  
 29-AUG-2002; 2002US-0406784P.  
 05-SEP-2002; 2002US-0408378P.  
 09-SEP-2002; 2002US-0409293P.  
 15-JAN-2003; 2003US-0440123P.  
 20-FEB-2003; 2003WO-US005028.  
 20-FEB-2003; 2003WO-US005346.  
 30-APR-2003; 2003US-00427160.  
 23-MAY-2003; 2003US-00444853.  
 20-OCT-2003; 2003US-0512701P.  
 23-OCT-2003; 2003US-00693059.  
 24-NOV-2003; 2003US-00720448.  
 03-DEC-2003; 2003US-00727780.  
 14-JAN-2004; 2004US-00757803.  
 10-FEB-2004; 2004US-0543480P.  
 13-FEB-2004; 2004US-00780447.  
 16-APR-2004; 2004US-00826966.  
 30-APR-2004; 2004WO-US013456.  
 24-MAY-2004; 2004WO-US016390.  
 (SIRN-) SIRNA THERAPEUTICS INC.

Usman N, Mcswiggen J;

WPI; 2005-505469/51.

Novel chemically synthesized double-stranded short interfering nucleic acid molecule directing cleavage of early growth response-1 RNA by RNA interference, useful in treating cancer, ocular disease or restenosis.

Claim 33; SEQ ID NO 200; 218pp; English.

The invention relates to chemically synthesized short interfering nucleic acids (siRNAs) which downregulate expression of the Egr-1 gene by RNA interference. The siRNAs may or may not comprise ribonucleotides, can contain deoxyribonucleotides, can be chemically modified and may be double or single stranded. They further comprise sense and antisense regions, or alternatively are assembled from a sense oligonucleotide and an antisense oligonucleotide. Specifically, the siRNAs include short interfering RNA (siRNA), double-stranded RNA, micro-RNA (miRNA) and short hairpin RNA (shRNA). The invention also relates to pharmaceutical compositions comprising an siRNA targeted to the Human Egr-1 mRNA. The invention further discloses expression vectors and host cells comprising an siRNA of the invention. The siRNAs are used to modulate expression of the Egr-1 gene in cells, tissue explants or organisms (for example by ex vivo gene therapy), or in grafts and transplants for the treatment of a variety of conditions. The siRNAs may be useful for the development of compounds with a cytostatic, antiarthritic, vasotropic, antiinflammatory, ophthalmological, antidiabetic, antipsoriatic, cerebroprotective or antiarteriosclerotic activity acting by RNA interference. They may be used in the treatment of cancer (for example colorectal cancer, adenocarcinoma, lymphoma and glioma), ocular disease (for example toxic conjunctivitis, bacterial keratitis, uveitic glaucoma and squamous cell carcinoma), tumor angiogenesis, and proliferative conditions such as diabetic retinopathy, macular degeneration, age related macular degeneration, arthritis, psoriasis, Sturge Weber syndrome, restenosis and/or arteriosclerosis. The siRNAs may also be used in drug screening, diagnosis, therapeutic target identification and validation, genetic engineering, pharmacogenomics, studying gene function and gene mapping (for example of single nucleotide polymorphisms). The present sequence is

```
CC that of a human Egr-1 gene-targeting siRNA of the invention.
XX
SQ Sequence 19 BP; 0 A; 6 C; 7 G; 0 T; 6 U; 0 Other;

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.3e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 645 CAGCAGCGGCGAGCGGC 663
Db 19 CAGCAGCAGCAGCAGC 1

RESULT 205
ADM95345
ID ADM95345 standard; DNA; 80 BP.
XX
AC ADM95345;
XX
DT 01-JUL-2004 (first entry)
XX
DE Rat antisense oligonucleotide #238.
XX
KW Rat; antisense oligonucleotide; ss; antisense RNA production; oncogenes;
KW tumour suppressor; cell cycle regulator; ion channel protein;
KW transport protein; intracellular signal transduction;
KW transcription factor; DNA-binding protein;
KW cell-cell communication protein; stress response gene;
KW apoptosis related gene; growth factor; chemokine; interleukin;
KW interferon; hormone; neurotransmitter; cell surface antigen;
KW cell adhesion molecule.
XX
OS Rattus sp.
XX
PN US2004072191-A1.
XX
PD 15-APR-2004.
XX
PF 07-MAR-2003; 2003US-00384245.
XX
PR 07-MAR-2002; 2002US-0362823P.
XX
PA (CHEN/) CHENCHIK A.
XX
PI Chenchik A;
XX
PI; 2004-373913/35.
XX
DR New standardizing control for RNA samples to be tested on non-control
XX gene sequences on nucleic acid arrays, useful for producing a population
XX of distinct antisense RNA molecules from an initial population of
XX distinct mRNA molecules.
XX
PS Disclosure; SEQ ID NO 238; 282pp; English.
XX
CC The invention relates to a standardising control for RNA samples to be
XX tested on non-control gene sequences on nucleic acid arrays, comprising a
XX pool of unique tagged synthetic antisense RNA molecules of a known
XX concentration, where any two sequences are unique if their sequences
XX differ. The non-control gene sequences on the nucleic acid array comprise
XX oncogenes, genes encoding tumour suppressors, cell cycle regulators, ion
XX channel proteins, transport proteins, intracellular signal transduction
XX modulator and effector factors, transcription factors, DNA-binding
XX proteins, receptors or cell-cell communication proteins, stress response
XX genes, apoptosis related genes, DNA synthesis/recombination/repair genes
XX and DNA-binding proteins. The genes encoding receptors comprise receptors
XX for growth factors, chemokines, interleukins, interferons, hormones,
XX neurotransmitters, cell surface antigens or cell adhesion molecules. The
XX genes encoding cell-cell communication proteins comprise growth factors,
XX cytokines, chemokines, interleukins, interferons or hormones. The
XX standardising control for RNA samples to be tested on non-control gene
XX sequences on nucleic acid arrays is useful for producing a population of
XX distinct antisense RNA molecules from an initial population of distinct
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CC mRNA molecules. This sequence represents an antisense oligonucleotide of
XX the invention.
SQ Sequence 80 BP; 13 A; 24 C; 22 G; 21 T; 0 U; 0 Other;

Query Match      0.6%; Score 15.8; DB 1; Length 80;
Best Local Similarity 52.2%; Pred. No. 1.3e+02;
Matches 35; Conservative 0; Mismatches 32; Indels 0; Gaps 0;

QY 19 CTGGGGTTGGGGGGGGGTCTCCCGGCCCGGAGCATCCTTGTGCTTGCTCAACCTTCT 78
Db 10 CTGGTGTCACTGTAGGTGCTGTCCCGGGTGAAGTCTCTCAGACTTGCAGTAAATGGGT 69

QY 79 GAGACCC 85
Db 70 GACACTC 76

RESULT 206
AAQ68243/c
ID AAQ68243 standard; DNA; 17 BP.
XX
AC AAQ68243;
XX
DT 25-MAR-2003 (revised)
DT 16-FEB-1995 (first entry)
XX
DE Triple helix forming methylphosphonate oligomer 2206.
XX
KW Methylphosphonate; MP; triple helix; translation; oligonucleoside; ss.
XX
OS Synthetic.
XX
PN WO9413326-A1.
XX
PD 23-JUN-1994.
XX
PF 08-DEC-1993; 93WO-US011986.
XX
PR 08-DEC-1992; 92US-00987746.
XX
PA (GENT-) GENTA INC.
XX
PI Arnold LJ, Reynolds MA;
XX
PI; 1994-217542/26.
XX
DR Detection, recognition, inhibition and alteration of single and double
XX stranded target nucleic acid sequences - by formation of a triple helix
XX structure using 2 oligomers which block translation.
XX
PS Example 11; Page 50; 67pp; English.
XX
CC Triple helix formation with 2:1 MP:RNA oligomers was demonstrated with
XX thermal denaturation methods. Exemplary triple helix forming MP-oligomers
XX are given in AAQ68242-52. (Updated on 25-MAR-2003 to correct PN field.)
XX
SQ Sequence 17 BP; 6 A; 0 C; 11 G; 0 T; 0 U; 0 Other;

Query Match      0.5%; Score 15.4; DB 1; Length 17;
Best Local Similarity 94.1%; Pred. No. 1.3e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 269 CCTGCTCTCTCTCTCTC 285
Db 17 CCTTCTCTCTCTCTCTC 1

RESULT 207
AAT81044
ID AAT81044 standard; RNA; 17 BP.
XX
AC AAT81044;
```



XX Arnold LJ, Reynolds MA, Giachetti C;  
PI WPI; 1995-254769/33.  
XX  
XX New oligo:nucleotide(s) causing cleavage of target RNA - with RNaseH  
PT activated segment having charged inter-nucleoside links and second  
PT segment with chirally selected links.  
XX  
XX Disclosure; Page 135; 165pp; English.  
XX  
XX This invention describes novel oligonucleosides that causes RNaseH-  
CC mediated cleavage of target RNA comprising (a) an RNaseH-activating  
CC region (R1) of at least 3 consecutive 2'-unsubstituted nucleosides  
CC connected by charged internucleoside links and (b) a non-RNase activating  
CC region (R2) of at least 2 nucleosides, with at least one chirally  
CC selected internucleoside link. The oligonucleosides of the invention have  
CC base sequences complementary to that of target RNA. The products of the  
CC invention are used to inhibit transcription of target RNA in a cell or  
CC organism, they are antisense molecules that also activate RNaseH.  
CC Particularly the oligonucleosides are used in diagnosis and treatment of  
CC disease associated with endogenous or foreign gene expression. Use  
CC against human papilloma virus is exemplified. The modified  
CC internucleoside links improve target specificity, potency and binding  
CC affinity (Ka) compared with racemic analogues. They are also more  
CC resistant to nuclease and so have better in-vivo lifetimes. The chirally  
CC selected linkages in R2 allow control of binding affinity. AAX56855-  
CC X56881 represent oligonucleosides used in the method of the invention  
XX  
XX Sequence 17 BP; 6 A; 0 C; 11 G; 0 T; 0 U; 0 Other;  
SQ  
Query Match 0.5%; Score 15.4; DB 1; Length 17;  
Best Local Similarity 94.1%; Pred. No. 1.3e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 269 CCTGCTCTCTCTCTCTC 285  
DB 17 CCTTCTCTCTCTCTCTC 1  
RESULT 210  
AAX63855/c  
ID AAX63855 standard; RNA; 17 BP.  
XX  
XX AAX63855;  
XX  
XX 20-JUL-1999 (first entry)  
XX  
XX Rabbit stromelysin hammerhead target SEQ ID NO:487.  
XX  
XX Arthritic condition; graft tolerance; immune response; target; cleavage;  
KW hammerhead ribozyme; hairpin ribozyme; human; rabbit; mouse; collagenase;  
KW stromelysin; synovial membrane; joint; arthritis; osteoarthritis;  
KW rheumatoid arthritis; autoimmune disease; allergy; inflammation;  
KW diagnosis; ss.  
XX  
XX Oryctolagus cuniculus.  
XX  
XX WO9618736-A2.  
XX  
XX 20-JUN-1996.  
XX  
XX 22-NOV-1995; 95WO-US015516.  
XX  
XX 13-DEC-1994; 94US-00354920.  
XX  
XX 23-DEC-1994; 94US-00363253.  
XX  
XX 23-DEC-1994; 94US-00363254.  
XX  
XX 17-FEB-1995; 95US-00390850.  
XX  
XX 20-APR-1995; 95US-00426124.  
XX  
XX 02-MAY-1995; 95US-00432874.  
XX  
XX 04-MAY-1995; 95US-00434509.  
XX  
XX 07-JUL-1995; 95US-0000951P.  
XX  
XX 07-JUL-1995; 95US-0000974P.

PR 07-AUG-1995; 95US-00512861.  
PR 05-OCT-1995; 95US-00541365.  
XX  
XX (RIBO-) RIBOZYME PHARM INC.  
XX  
XX Beigelman L, Stinchcomb DT, Jarvis T, Draper K, Pavco P;  
PI McSwiggan J, Gustofson J, Usman N, Wincott F, Matulic-Adamic J;  
PI Karpeisky A, Thompson JD, Modak A, Burgin A;  
XX  
XX WPI; 1996-300653/30.  
XX  
XX Enzymatic nucleic acid molecules having a hammer-head motif - used for  
PT the treatment of arthritis, induction of graft tolerance or treatment of  
PT auto-immune diseases.  
XX  
XX Example 1; Page 154; 307pp; English.  
XX  
XX The present invention describes a novel enzymatic nucleic acid (ENA)  
CC having a hammerhead motif (HM) comprising: (i) at least 5 ribose residues  
CC; (ii) a 2'-C-allyl modification at position 4 of the ENA; (iii) at least  
CC ten 2'-O-methyl modifications; and (iv) a 3'-end modification. The ENA's  
CC can inhibit collagenase and stromelysin production in the synovial  
CC membrane of joints for the treatment or prevention of arthritis,  
CC particularly osteoarthritis or rheumatoid arthritis. The ENA's can also  
CC be used to treat antigen presenting cells of a donor to induce tolerance  
CC in a recipient to an alloantigen of a donor. They can also be used for  
CC enhancing graft tolerance or for treating autoimmune disease, and for  
CC treating allergies and other inflammatory conditions. The ENA's can also  
CC be used in diagnosis. Ribozyme therapy impacts on the expression of  
CC stromelysin without introducing the non-specific effects upon gene  
CC expression which accompany treatment with retinoids and dexamethasone.  
CC The concentration of ribozyme required to affect a therapeutic treatment  
CC is lower than that required of antisense molecules, and is highly  
CC specific. The present sequence is used in the exemplification of the  
CC present invention  
XX  
XX Sequence 17 BP; 4 A; 4 C; 4 G; 0 T; 5 U; 0 Other;  
SQ  
Query Match 0.5%; Score 15.4; DB 1; Length 17;  
Best Local Similarity 94.1%; Pred. No. 1.3e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 512 TCATCATCAACGCTGGGC 528  
DB 17 TCATCATCAAGTGGGC 1  
RESULT 211  
AAX63931/c  
ID AAX63931 standard; RNA; 17 BP.  
XX  
XX AAX63931;  
XX  
XX 20-JUL-1999 (first entry)  
XX  
XX Rabbit stromelysin hammerhead target SEQ ID NO:563.  
XX  
XX Arthritic condition; graft tolerance; immune response; target; cleavage;  
KW hammerhead ribozyme; hairpin ribozyme; human; rabbit; mouse; collagenase;  
KW stromelysin; synovial membrane; joint; arthritis; osteoarthritis;  
KW rheumatoid arthritis; autoimmune disease; allergy; inflammation;  
KW diagnosis; ss.  
XX  
XX Oryctolagus cuniculus.  
XX  
XX WO9618736-A2.  
XX  
XX 20-JUN-1996.  
XX  
XX 22-NOV-1995; 95WO-US015516.  
XX  
XX 13-DEC-1994; 94US-00354920.  
XX  
XX 23-DEC-1994; 94US-00363253.

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PR 23-DEC-1994; 94US-00363254.
PR 17-FEB-1995; 95US-00390850.
PR 20-APR-1995; 95US-00426124.
PR 02-MAY-1995; 95US-00432874.
PR 04-MAY-1995; 95US-00434509.
PR 07-JUL-1995; 95US-0000951P.
PR 07-JUL-1995; 95US-0000974P.
PR 07-AUG-1995; 95US-00512861.
PR 05-OCT-1995; 95US-00541365.
XX
XX (RIBO-) RIBOZYME PHARM INC.
XX
XX Beigelman L, Stinchcomb DT, Jarvis T, Draper K, Pavco P;
PI Mcswiggen J, Gustofson J, Usman N, Wincott F, Matulic-Adamic J;
PI Karpelesky A, Thompson JD, Modak A, Burgin A;
XX
XX WPI; 1996-300653/30.
XX
XX Enzymatic nucleic acid molecules having a hammer-head motif - used for
PT the treatment of arthritis, induction of graft tolerance or treatment of
PT auto-immune diseases.
XX
XX Example 1; Page 154; 307pp; English.
XX
XX The present invention describes a novel enzymatic nucleic acid (ENA)
CC having a hammerhead motif (HM) comprising: (i) at least 5 ribose residues
CC ; (ii) a 2'-C-allyl modification at position 4 of the ENA; (iii) at least
CC ten 2'-O-methyl modifications; and (iv) a 3'-end modification. The ENA's
CC can inhibit collagenase and stromelysin production in the synovial
CC membrane of joints for the treatment or prevention of arthritis,
CC particularly osteoarthritis or rheumatoid arthritis. The ENA's can also
CC be used to treat antigen presenting cells of a donor to induce tolerance
CC in a recipient to an alloantigen of a donor. They can also be used for
CC enhancing graft tolerance or for treating autoimmune disease, and for
CC treating allergies and other inflammatory conditions. The ENA's can also
CC be used in diagnosis. Ribozyme therapy impacts on the expression of
CC stromelysin without introducing the non-specific effects upon gene
CC expression which accompany treatment with retinoids and dexamethasone.
CC The concentration of ribozyme required to affect a therapeutic treatment
CC is lower than that required of antisense molecules, and is highly
CC specific. The present sequence is used in the exemplification of the
CC present invention
XX
SQ Sequence 17 BP; 2 A; 7 C; 2 G; 0 T; 6 U; 0 Other;
Query Match 0.5%; Score 15.4; DB 1; Length 17;
Best Local Similarity 94.1%; Pred. No. 1.3e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 473 TGAAGGAGGAGATGCC 489
Db 17 TGAAGGAGGAGATGCC 1
RESULT 212
AAX91056/c
ID AAX91056 standard; DNA; 17 BP.
XX
XX AAX91056;
XX
XX 15-NOV-1999 (first entry)
XX
XX Oligomer having repeated methylphosphonate internucleosidyl linkages.
DE Phosphonate internucleosidyl linkage; chirality; hybridization; racemic;
KW binding affinity; ss.
KW Synthetic.
OS US5955597-A.
PN
XX
XX 21-SEP-1999.
XX

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PF 30-JUN-1997; 97US-00885126.
XX
XX 16-NOV-1993; 93US-00154013.
PR 21-NOV-1994; 94US-00343018.
XX
XX (GENT-) GENTA INC.
PA
XX
XX Schwartz DA, Vaghefi MM, Riley TA, Arnold LJ, Reynolds MA;
PI
XX WPI; 1999-539600/45.
XX
XX Oligomers made using chirally pure nucleoside dimers, trimers, or
PT tetramers with enhanced binding affinities.
XX
XX Example 7; Col 37-38; 30pp; English.
XX
XX The invention provides methods for preparing oligomers having phosphonate
CC internucleosidyl linkages of a preselected chirality which hybridize to a
CC target RNA sequence. The method of making comprises: (a) synthesizing a
CC nucleoside dimer, trimer, or tetramer with racemic internucleosidyl
CC phosphonate linkages; (b) purifying the racemic nucleoside to a chirally
CC pure nucleoside; and (c) sequentially linking at least 2 of the chirally
CC pure nucleosides to form a synthetic oligomer that is enriched for
CC phosphonate internucleosidyl linkages of a preselected chirality and is
CC complementary to an RNA target sequence. The methods are useful for
CC providing chirally enriched synthetic oligomers. Rp chirally enriched
CC synthetic oligomers have enhanced binding affinities for RNA compared to
CC oligomers with racemic all methylphosphonate internucleosidyl linkages.
CC Sequences AAX91054-75 represent oligomers chemically synthesised using
CC the method of the invention
XX
SQ Sequence 17 BP; 6 A; 0 C; 11 G; 0 T; 0 U; 0 Other;
Query Match 0.5%; Score 15.4; DB 1; Length 17;
Best Local Similarity 94.1%; Pred. No. 1.3e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 269 CCTGCCTCCTCCTCCTC 285
Db 17 CCTTCCTCCTCCTCCTC 1
RESULT 213
ADV45239
ID ADV45239 standard; DNA; 17 BP.
XX
XX ADV45239;
AC
XX
XX 10-MAR-2005 (first entry)
DT
XX
XX Human CpG site probe SEQ ID NO 766.
XX
XX DNA methylation; ss; probe; cancer; neoplasm; squamous cell carcinoma.
XX
XX Homo sapiens.
XX
XX WO2004110246-A2.
XX
XX 23-DEC-2004.
PD
XX
XX 14-MAY-2004; 2004WO-US015382.
PF
XX
XX 15-MAY-2003; 2003US-0471488P.
XX
XX (ILLU-) ILLUMINA INC.
PA
XX
XX Fan J, Bibikova M;
PI
XX
XX WPI; 2005-057693/06.
XX
XX Identifying differentially methylated genomic CpG dinucleotide sequences
PT associated with cancer, comprises measuring level of methylated genomic
PT CpG dinucleotide sequences for genomic targets in sample and comparing to

```

PT reference level.  
 XX Claim 28; SEQ ID NO 766; 89pp; English.  
 XX  
 CC The invention relates to a method of identifying differentially  
 CC methylated genomic CpG dinucleotide sequences associated with cancer,  
 CC comprising measuring the level of methylated genomic CpG dinucleotide  
 CC sequences for two or more of the genomic targets in sample, and comparing  
 CC the level of methylation at genomic CpG dinucleotide sequences in the  
 CC sample to a reference level of methylated genomic CpG dinucleotide  
 CC sequences. The method is useful for identifying differentially methylated  
 CC genomic CpG dinucleotide sequences associated with cancer in an  
 CC individual. The level of methylation of the differentially methylated  
 CC genomic CpG dinucleotide sequences is used to diagnose cancer in the  
 CC individual, predict the course of cancer, predict the susceptibility of  
 CC cancer, stage the progression of cancer, predict the likelihood of  
 CC overall survival, and predict the likelihood of recurrence of cancer for  
 CC individual. The level of methylation of the differentially methylated  
 CC genomic CpG dinucleotide sequences in the sample is also used to  
 CC determine the effectiveness of a treatment course undergone by the  
 CC individual. The cancer is preferably adenocarcinoma or squamous cell  
 CC carcinoma. The probes are useful for detecting methylation of genomic CpG  
 CC dinucleotide sequences of two or more genomic targets. The present  
 CC sequence represents a CpG site probe.  
 XX  
 XX Sequence 17 BP; 0 A; 11 C; 1 G; 5 T; 0 U; 0 Other;  
 SQ

Query Match 0.5%; Score 15.4; DB 1; Length 17;  
 Best Local Similarity 94.1%; Pred. No. 1.3e+02;  
 Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 300 CCTTCTCGTCTCTCC 316  
 ||| ||||| ||||| |||||  
 Db 1 CCTCTCGTCTCTCC 17

RESULT 214  
 AAA05258  
 ID AAA05258 standard; DNA; 18 BP.  
 XX  
 AC AAA05258;  
 XX  
 DT 19-MAY-2000 (first entry)  
 XX  
 DE PCR primer G-R used in Sox-3 amplicon generation.  
 XX  
 KW PCR primer; Sox-2; Sox-3; T gene; Tyrosinase; MGF; Sry; c-kit; Tryp-1;  
 KW Pax-6; mutation detection; therapeutic target identification; mouse;  
 KW mast cell growth factor; ss.  
 XX  
 OS Mus sp.  
 XX  
 PN US6015670-A.  
 XX  
 PD 18-JAN-2000.  
 XX  
 PF 14-NOV-1997; 97US-00970740.  
 XX  
 PR 17-MAY-1996; 96US-0017824P.  
 PR 16-MAY-1997; 97US-00857946.  
 XX  
 XX (HEXA-) HEXAGEN TECHNOLOGY LTD.  
 PA  
 XX Goodfellow PN;  
 PI  
 XX WPI; 2000-181139/16.  
 DR  
 XX  
 XX Detecting mutations in selected genes, useful e.g. for identifying  
 PT therapeutic targets or products, by analyzing DNA in mutated embryonic  
 PT stem cells without phenotypic characterization.  
 XX  
 XX Example 5; Col 31; 66pp; English.  
 PS  
 XX

CC PCR primers AAA05245-A05406 are used to generate amplicons from the mouse  
 CC Sox-3 gene, Sox-2 gene, T gene, tyrosinase gene, Tryp-1 gene, Sry gene,  
 CC MGF (mast cell growth factor) gene, c-kit gene, and the Pax-6 gene. The  
 CC primers are used in a method for the identification of a mutation in a  
 CC selected gene in a tissue without the prior observation of a phenotypic  
 CC alteration in the mutated organism or cell. The method is used to  
 CC identify mutations in a selected gene that encode products of potential  
 CC therapeutic activity or that are potential targets, particularly where  
 CC the gene of interest has been identified as a candidate gene by  
 CC positional cloning. Other applications are determining functions of genes  
 CC detecting the range of phenotypes associated with different mutations  
 CC in a particular gene and identification of particular mutations. Animals  
 CC containing an identified mutation are used as models for studying  
 CC diseases or their treatment, and cells from them for in vitro assessment  
 CC of drug action. Interbreeding of mutant mice is used to investigate  
 CC genetic interaction in the overall phenotype  
 XX  
 SQ Sequence 18 BP; 0 A; 7 C; 11 G; 0 T; 0 U; 0 Other;  
 Query Match 0.5%; Score 15.4; DB 1; Length 18;  
 Best Local Similarity 94.1%; Pred. No. 1.4e+02;  
 Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGGCGGCGGCGC 675  
 ||||| ||||| ||||| |||||  
 Db 1 GCGGCGGCGGCGGCGC 17

RESULT 215  
 AAS13717/c  
 ID AAS13717 standard; DNA; 18 BP.  
 XX  
 AC AAS13717;  
 XX  
 DT 08-MAY-2002 (first entry)  
 XX  
 DE Simple sequence repeat, SSR, #14.  
 XX  
 KW Simple sequence repeat; plant; ds; SSR; ryegrass; fescue; tandem repeat;  
 KW cereal profiling; grass profiling; seed batch purity testing.  
 XX  
 OS Poaeae.  
 XX  
 PN NZ509193-A.  
 XX  
 PD 25-MAY-2001.  
 XX  
 PF 03-JAN-2001; 2001NZ-00509193.  
 XX  
 PR 24-DEC-1999; 99AU-00004906.  
 PR 04-MAY-2000; 2000AU-00007310.  
 XX  
 XX (SAUS-) STATE SOUTH AUSTRALIA SOUTH AUSTRALIAN R.  
 PA (UYSC-) UNIV SOUTHERN CROSS.  
 PA (VICT-) STATE VICTORIA DEPT NATURAL RES & ENVIRO.  
 PA (UYAD-) UNIV ADELAIDE.  
 PA (ITWA-) INT MAIZE & WHEAT IMPROVEMENT CENT.  
 XX  
 XX Forster JW, Jones ES;  
 PI  
 XX WPI; 2001-512563/56.  
 DR  
 XX New simple sequence repeats having 2 or more tandemly repeated nucleotide  
 PT core elements isolated from ryegrass and fescue, useful for selecting of  
 PT genes in grass or cereal breeding or profiling grass or cereal species  
 PT varieties.  
 XX  
 XX Claim 6; Page 51; 72pp; English.  
 PS  
 XX The invention relates to a substantially purified or isolated nucleic  
 CC acid (I) from ryegrass or fescue species including a simple sequence  
 CC repeat (SSR), having 2 or more tandemly repeated nucleotide core elements  
 CC 2-6 nucleotides in length. Also included are a nucleic acid primer



CC suitable for amplifying an SSR, identifying (M1) an SSR by preparing a  
 CC library of ryegrass or fescue genomic DNA enriched for SSRs and  
 CC identifying clones in the library containing SSRs, a library of ryegrass  
 CC or fescue genomic DNA enriched for SSRs prepared by the M1, selecting for  
 CC a gene in grass or cereal breeding by identifying an SSR that is closely  
 CC associated with the gene such that the SSR and the gene are  
 CC preferentially co-inherited, and selecting for the SSR in the breeding, a  
 CC method for DNA profiling grass or cereal species varieties by assessing  
 CC variation between SSR varieties and testing the purity of grass or cereal  
 CC seed batches by assessing variation within seed batch of an SSR. The SSRs  
 CC may be used in the selection of genes in grass or cereal breeding, for  
 CC profiling grass or cereal species varieties, for testing the purity of  
 CC grass or cereal seed batches, and for DNA profiling to establish the  
 CC distinct identity, uniformity and/or stability of a cultivar. The present  
 CC sequence is a ryegrass or fescue SSR  
 XX  
 SQ Sequence 18 BP; 0 A; 6 C; 6 G; 6 T; 0 U; 0 Other;  
 Query Match 0.5%; Score 15.4; DB 1; Length 18;  
 Best Local Similarity 94.1%; Pred. No. 1.4e+02;  
 Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 644 GCAGCAGCGCAGCAGC 660  
 DB 18 GCAGCAGCGCAGCAGC 2  
 RESULT 216  
 AAT54748  
 ID AAT54748 standard; RNA; 18 BP.  
 XX  
 AC AAT54748;  
 XX  
 DT 25-MAR-2003 (revised)  
 DT 01-APR-1997 (first entry)  
 XX  
 DE Mouse IL-5 hammerhead ribozyme target sequence (nt. position 710).  
 XX  
 KW Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition;  
 KW gene expression; downregulation; interleukin-5; IL-5; ICAM-1;  
 KW intercellular adhesion molecule; rel A; tumour necrosis factor;  
 KW TNF-alpha; respiratory syncytial virus; RSV; bcr-abl; oncogene;  
 KW translocation; chronic myelogenous leukaemia; CML; cancer;  
 KW Philadelphia chromosome; inflammation; autoimmune disease;  
 KW atherosclerosis; myocardial infarction; stroke; restenosis;  
 KW transplant rejection; rheumatoid arthritis; psoriasis;  
 KW myocardial ischaemia; Kawasaki disease; septic shock; HIV;  
 KW human immunodeficiency virus; acquired immune deficiency syndrome; AIDS;  
 KW ss.  
 XX  
 OS Mus musculus.  
 XX  
 PN WO9523225-A2.  
 XX  
 PD 31-AUG-1995.  
 XX  
 PF 23-FEB-1995; 95WO-IB000156.  
 XX  
 PR 23-FEB-1994; 94US-00201109.  
 PR 29-MAR-1994; 94US-00218934.  
 PR 04-APR-1994; 94US-00222795.  
 PR 07-APR-1994; 94US-00224483.  
 PR 15-APR-1994; 94US-00227958.  
 PR 18-APR-1994; 94US-00228041.  
 PR 15-MAY-1994; 94US-00245736.  
 PR 06-JUL-1994; 94US-00271280.  
 PR 15-AUG-1994; 94US-00291932.  
 PR 16-AUG-1994; 94US-00291433.  
 PR 17-AUG-1994; 94US-00292620.  
 PR 19-AUG-1994; 94US-00293520.  
 PR 02-SEP-1994; 94US-00300000.  
 PR 08-SEP-1994; 94US-00303039.  
 PR 23-SEP-1994; 94US-00311486.

PR 23-SEP-1994; 94US-00311749.  
 PR 28-SEP-1994; 94US-00314397.  
 PR 03-OCT-1994; 94US-00316771.  
 PR 07-OCT-1994; 94US-00319492.  
 PR 11-OCT-1994; 94US-00321993.  
 PR 04-NOV-1994; 94US-00334847.  
 PR 10-NOV-1994; 94US-00337608.  
 PR 28-NOV-1994; 94US-00345516.  
 PR 16-DEC-1994; 94US-00357577.  
 PR 23-DEC-1994; 94US-00363233.  
 PR 30-JAN-1995; 95US-00380734.  
 XX  
 XX (RIBO-) RIBOZYME PHARM INC.  
 XX  
 PI Stinchcomb DT, Chowrira B, Dorenzo A, Draper KG, Dudycz LW;  
 PI Grimm S, Karpeisky A, Kisich K, Matulic-Adamic J, Mcswiggen JA;  
 PI Modak A, Pavco P, Beigleman L, Sullivan SM, Sweedler D, Thompson JD;  
 PI Tracz D, Usman N, Wincott FE, Woolf T;  
 DR WPI; 1995-351090/45.  
 XX  
 PT Ribozymes having modified bases and methods for producing them - for use  
 PT in inhibiting disease related genes.  
 XX  
 PS Claim 2; Page 223; 407pp; English.  
 XX  
 CC The present sequence represents a preferred target sequence for an  
 CC enzymatic nucleic acid (i.e. a ribozyme) which cleaves interleukin-5 (IL-  
 CC 5) mRNA at the nucleotide base position indicated in the DE line. Regions  
 CC of the mRNA that do not form secondary folding structures and that  
 CC contain potential hammerhead and hairpin ribozyme cleavage sites were  
 CC identified by computer analysis. Ribozymes directed against these mRNA  
 CC sequences were designed and synthesised with modifications that improve  
 CC their nuclease resistance. The ribozymes cleave the IL-5 target sequences  
 CC and thereby inhibit IL-5 expression, making them useful for treating  
 CC chronic asthma, e.g. by inhibiting the synthesis of IL-5 in lymphocytes  
 CC and preventing the recruitment and activation of eosinophils. The  
 CC ribozymes can also be used to treat eosinophilia (related to parasitic  
 CC infection or with pulmonary infiltration) and L-tryptophan-associated  
 CC eosinophilia-myalgia syndrome. (Updated on 25-MAR-2003 to correct PI  
 CC field.)  
 XX  
 SQ Sequence 18 BP; 0 A; 10 C; 1 G; 0 T; 7 U; 0 Other;  
 Query Match 0.5%; Score 15.4; DB 1; Length 18;  
 Best Local Similarity 64.7%; Pred. No. 1.4e+02;  
 Matches 11; Conservative 5; Mismatches 1; Indels 0; Gaps 0;  
 QY 266 CCTCTGCTCTCTCTC 282  
 DB 2 CCUCCUGCCUCCUUC 18  
 RESULT 217  
 AAV16014  
 ID AAV16014 standard; DNA; 18 BP.  
 XX  
 AC AAV16014;  
 XX  
 DT 21-MAY-1998 (first entry)  
 XX  
 DE PCR primer G-R used to identify Sox-3 gene mutations in mice.  
 XX  
 KW Mutation; Sox-3; ENU mutagenesis; mutational screening; recessive;  
 KW single strand conformation polymorphism; SSCP; phenotypic alteration;  
 KW PCR primer; amplify; ss.  
 XX  
 OS Synthetic.  
 OS Mus sp.  
 XX  
 PN WO9744485-A1.  
 XX  
 PD 27-NOV-1997.

XX PF 16-MAY-1997; 97WO-GB001354.  
 XX PR 17-MAY-1996; 96GB-00010355.  
 XX PA (HEXA-) HEXAGEN TECHNOLOGY LTD.  
 XX PI Goodfellow PN;  
 XX WPI; 1998-018536/02.  
 XX Identification of mutation(s) in genes of interest - without prior  
 PT observation of phenotypic alteration in the mutated organism or cell.  
 XX Example 4; Page 41; 66pp; English.  
 XX PCR primers AAV16001-18 were used to identify mutations in Sox-3 using  
 CC the method of the invention. The primers are located throughout the gene  
 CC and are unique to Sox-3. The method comprises testing a nucleic acid  
 CC sample from a mutated organism for a mutation in a gene of interest  
 CC without the prior observation of a phenotypic alteration in the mutated  
 CC organism resulting from the mutation. Sox-3 is a member of the Sox gene  
 CC family, a family of about 20 genes which all encode a "HMG" box, which is  
 CC a DNA-binding domain. Mice were mutagenised using ENU mutagenesis. The  
 CC mutagenised mice were tested by PCR with each primer set and fluorescent  
 CC single strand conformation polymorphism (SSCP), which identifies mice  
 CC carrying mutations in Sox-3. The method provides mutational screening  
 CC based on genomic and genetic techniques rather than on phenotypic  
 CC observation. The method identifies and characterises genes via  
 CC mutagenesis to identify genes encoding products which may have  
 CC therapeutic benefit. The method also identifies the presence of mutations  
 CC in a gene which do not rely solely upon prior matching of a gene with a  
 CC disease. Heterozygotic organisms can also be screened to identify those  
 CC carrying a mutation in a copy of a gene of interest even though the gene  
 CC may be recessive and therefore causes no phenotypic alteration  
 XX  
 XX Sequence 18 BP; 0 A; 7 C; 11 G; 0 T; 0 U; 0 Other;  
 SQ  
 Query Match 0.5%; Score 15.4; DB 1; Length 18;  
 Best Local Similarity 94.1%; Pred. No. 1.4e+02;  
 Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 659 GCGGCGGCGCGCGGCG 675  
 Db |||||  
 1 GCGGCGGCGCGCGGCGG 17  
 RESULT 218  
 AAX63290/C  
 ID AAX63290 standard; RNA; 18 BP.  
 AC AAX63290;  
 XX  
 XX 16-JUL-1999 (first entry)  
 DT  
 DE Delta-9 desaturase hairpin ribozyme substrate SEQ ID NO:1165.  
 XX  
 XX Maize; corn; Zea mays; delta-9 desaturase; GBSS; target; substrate;  
 KW granule bound starch synthase; hammerhead ribozyme; hairpin ribozyme;  
 KW modulation; gene expression; transgenic plant; cleavage; canola plant;  
 KW caffeine synthesis; coffee plant; nicotine production; tobacco;  
 KW fruit ripening; flower pigmentation; lignin production; ss.  
 XX  
 XX Zea mays.  
 OS  
 XX  
 XX WO9710328-A2.  
 PN  
 XX  
 XX 20-MAR-1997.  
 PD  
 XX  
 XX 12-JUL-1996; 96WO-US011689.  
 PF  
 XX  
 XX 13-JUL-1995; 95US-0001135P.  
 PR  
 XX

PA (RIBO-) RIBOZYME PHARM INC.  
 PA (DOWC) DOWELANCO.  
 XX  
 XX Zwick MG, Edington BE, Meswiggen JA, Merlo PAO, Guo L, Skokut TA;  
 PI Young SA, Folkerts O, Merlo DJ;  
 XX  
 XX WPI; 1997-202224/18.  
 DR  
 XX Ribozyme which modulates plant gene expression - preferably modulates  
 PT expression of DELTA-9 desaturase or granule bound starch synthase in  
 PT maize or canola.  
 XX  
 XX Claim 40; Page 93; 155pp; English.  
 PS  
 XX The present invention describes an enzymatic nucleic acid molecule (I)  
 CC with RNA cleaving activity, which modulates the expression of a plant  
 CC gene. Also described is a gene comprising a cDNA sequence encoding maize  
 CC Delta-9 desaturase. (I) can be used to modulate expression of a gene,  
 CC preferably Delta-9 desaturase or a granule bound starch synthase (GBSS)  
 CC gene, in a plant (preferably a maize or canola plant). (I) can be used to  
 CC modulate caffeine synthesis in a coffee plant, nicotine production in a  
 CC tobacco plant, fruit ripening processes in an apple, tomato, pear, plum  
 CC or peach plant, flower pigmentation in a rose, petunia, chrysanthemum or  
 CC marigold plant or lignin production in a tobacco, aspen, poplar or pine  
 CC plant  
 XX  
 XX Sequence 18 BP; 0 A; 12 C; 6 G; 0 T; 0 U; 0 Other;  
 SQ  
 Query Match 0.5%; Score 15.4; DB 1; Length 18;  
 Best Local Similarity 94.1%; Pred. No. 1.4e+02;  
 Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 656 GCAGCGGCGCGCGGCGG 672  
 Db |||||  
 18 GCGGCGGCGCGGCGGCGG 2  
 RESULT 219  
 AAZ43273  
 ID AAZ43273 standard; DNA; 18 BP.  
 XX  
 XX AAZ43273;  
 AC  
 XX 11-FEB-2000 (first entry)  
 DT  
 XX Murine Sox3 gene PCR primer 14.  
 DE  
 XX Screening; mutation; treatment; disease; drug discovery; PCR primer; ss.  
 KW  
 XX Mus musculus.  
 OS  
 XX US5994075-A.  
 PN  
 XX 30-NOV-1999.  
 PD  
 XX 16-MAY-1997; 97US-00857946.  
 PF  
 XX 17-MAY-1996; 96US-0017824P.  
 PR  
 XX (HEXA-) HEXAGEN TECHNOLOGY LTD.  
 PA  
 XX Goodfellow PN;  
 PI  
 XX WPI; 2000-038255/03.  
 DR  
 XX Identifying a mutation in a gene of interest in an organism useful for  
 PT identifying genes encoding products which may have therapeutic benefits.  
 PT  
 XX Example 5; Col 65-66; 70pp; English.  
 PS  
 XX This invention describes a novel mutational screening method based on  
 CC genomic and genetic techniques to identify and characterize a mutation in  
 CC a gene of interest without first selecting a phenotypic characteristic.  
 CC

CC The screening methods are useful for identifying genes encoding products  
 CC which may have therapeutic benefit for treating human or animal diseases.  
 CC The method can be used for the DNA mutation screening of a class or a  
 CC family of genes providing a rapid assay for identifying mutant genes. The  
 CC methods produce organisms which can be used for drug discovery e.g.  
 CC providing a model for the study and treatment of a disease state, allow  
 CC in vitro assessment of drug activity and interbreeding of mutants which  
 CC allow investigation of gene interactions in the overall phenotype. A  
 CC range of phenotypes associated with different mutations, and specified  
 CC mutations in a gene of interest can be determined. The method can be  
 CC adapted to screen for a mutation in two or more genes of interest in an  
 CC organism. The methods allow mutations in a gene of interest to be  
 CC identified without having to rely on matching a gene with a disease.  
 CC AAZ43260-Z43421 represent PCR primers used in the method of the invention  
 XX  
 SQ Sequence 18 BP; 0 A; 7 C; 11 G; 0 T; 0 U; 0 Other;

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
 Best Local Similarity 94.1%; Pred. No. 1.4e+02;  
 Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 659 GCGGCGGCGGCGGCGGC 675  
 DB 1 GCGGCGGCGGCGGCGGC 17  
 |||||

RESULT 220  
 ACA60586/c  
 ID ACA60586 standard; DNA; 18 BP.  
 XX  
 AC ACA60586;  
 XX  
 DT 11-JUN-2003 (first entry)  
 XX  
 DE Antisense inhibition of human cyclin D2 related oligonucleotide #23.  
 KW Human; cyclin D2; diagnostic; therapeutic; prophylaxis;  
 KW cyclin 2 inhibition; ss.

XX Homo sapiens.  
 XX US6492173-B1.  
 PN 10-DEC-2002.  
 PD  
 PF 01-AUG-2001; 2001US-00920760.  
 XX  
 PR 01-AUG-2001; 2001US-00920760.  
 XX  
 PA (ISIS-) ISIS PHARM INC.  
 PI Cowser LM;  
 XX  
 DR WPI; 2003-361492/34.  
 XX  
 PT Novel antisense compound useful for treating diseases associated with  
 PT Cyclin D2 expression, comprises an oligonucleotide comprising up to 50  
 PT nucleobases in length, which inhibits expression of Cyclin D2 in cells or  
 PT tissues in vitro.  
 XX  
 PS Example 15; Col 45-46; 40pp; English.

CC The invention describes a compound (I) of up to 50 nucleobases in length,  
 CC which inhibits the expression of Cyclin D2. (I) is useful for inhibiting  
 CC the expression of Cyclin D2 in cells or tissues in vitro. (I) is thus  
 CC useful for treating disease associated with Cyclin D2 expression. (I) is  
 CC useful for diagnostics, therapeutics, prophylaxis and as research  
 CC reagents and kits. This sequence represents human cyclin D2 inhibition  
 CC associated oligonucleotide  
 XX

SQ Sequence 18 BP; 3 A; 3 C; 7 G; 5 T; 0 U; 0 Other;  
 Query Match 0.5%; Score 15.4; DB 1; Length 18;

Best Local Similarity 94.1%; Pred. No. 1.4e+02;  
 Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1334 AGAACCTGCTCACATC 1350  
 DB 18 AGAACCTGCTCACATC 2  
 |||||

RESULT 221  
 ADA27361  
 ID ADA27361 standard; DNA; 18 BP.  
 XX  
 AC ADA27361;  
 XX  
 DT 20-NOV-2003 (first entry)  
 XX  
 DE Human microsatellite repeat M2\_3\_8.  
 XX  
 KW ds; HLA-related research; HLA class II-associated disease;  
 KW translocation matching; recombination hot spot identification;  
 KW linkage disequilibrium study; human; microsatellite.

OS Homo sapiens.  
 XX  
 PN US2003108940-A1.  
 PD 12-JUN-2003.  
 XX  
 PF 06-DEC-2002; 2002US-00314405.  
 XX  
 PR 15-NOV-2000; 2000US-00713616.  
 XX  
 PA (INOK/) INOKO H.

PI Inoko H, Tamiya G, Matsuzaka Y;  
 XX  
 DR WPI; 2003-616782/58.

XX New oligonucleotide primer capable of specifically hybridizing to a DNA  
 PT having the sequence of the flanking regions of a microsatellite (e.g.  
 PT M249), useful for HLA-related research, e.g. transplantation matching.

XX Example 2; Page 5; 20pp; English.

XX The invention relates to an oligonucleotide primer capable of  
 CC specifically hybridising to a DNA having the sequence of the flanking  
 CC regions of a microsatellite selected from M2-4-9, M2-2-9, M2-2-12, M2-3-  
 CC 11, M2-2-20, M2-2-21, M2-2-22, M2-2-23, M2-2-24, M2-4-25, M2-4-26, M2-2-  
 CC 29, M2-2-32, M2-4-32, M2-4-33, M2-4-37, M2-3-22, M2-2-36, M2-5-11, M2-2-  
 CC 46, and M2-2-48. The primer is useful for determining the number of  
 CC repeat units of the microsatellite cited above. The primer is useful in  
 CC HLA-related research, such as genetic mapping of HLA class II-associated  
 CC diseases, transplantation matching, population genetics, and  
 CC identification of recombination hot spots as well as linkage  
 CC disequilibrium studies. The present sequence represents the human  
 CC microsatellite repeat M2\_3\_8.

SQ Sequence 18 BP; 0 A; 6 C; 12 G; 0 T; 0 U; 0 Other;  
 Query Match 0.5%; Score 15.4; DB 1; Length 18;  
 Best Local Similarity 94.1%; Pred. No. 1.4e+02;  
 Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGGCGGCGGCGGC 675  
 DB 1 GCGGCGGCGGCGGCGGC 17  
 |||||

RESULT 222  
 ADN97239  
 ID ADN97239 standard; DNA; 18 BP.  
 XX  
 AC ADN97239;

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XX 01-JUL-2004 (first entry)
XX PI
XX DT
XX DE
XX DE Primer of the invention #47.
XX XX
XX DNA fingerprinting; Cannabis sativa; short tandem repeat marker;
XX forensic identification; marijuana; primer; ss.
XX KW
XX XX
XX OS Unidentified.
XX XX
XX PN WO200400841-A2.
XX PD
XX XX 29-JAN-2004.
XX PF 21-JUL-2003; 2003WO-US022887.
XX PR 19-JUL-2002; 2002US-0397179P.
XX XX
XX (UYAR-) UNIV ARIZONA.
XX PA (KEIM/) KEIM P S.
XX PA (ZINN/) ZINNAMON K.
XX XX
XX Keim PS, Zinnamon K;
XX PI
XX WPI; 2004-143139/14.
XX DR
XX New isolated nucleic acid for amplification of a short tandem repeat
XX PT located in DNA isolated from Cannabis sativa L species, useful for
XX forensic identification of marijuana or for linking a marijuana sample to
XX PT its plant source.
XX PT
XX Example 9; SEQ ID NO 106; 79pp; English.
XX PS
XX The present invention relates to DNA fingerprinting for Cannabis Sativa
XX CC using short tandem repeat markers. The nucleic acid is useful for
XX CC forensic identification of marijuana or for linking a marijuana sample to
XX CC its plant source. The present sequence represents a primer of the
XX CC invention.
XX CC
XX Sequence 18 BP; 6 A; 6 C; 6 G; 0 T; 0 U; 0 Other;
XX SQ
    Query Match 0.5%; Score 15.4; DB 1; Length 18;
    Best Local Similarity 94.1%; Pred. No. 1.4e+02;
    Matches 16; Conservative 0; Mismatches .1; Indels 0; Gaps 0;
    QY 644 GCAGCAGCGGCGAGCAGC 660
    Db 2 GCAGCAGCAGCAGCAGC 18
    ||||| |||||
    ||||| |||||

RESULT 223
ADO26610
ID ADO26610 standard; DNA; 18 BP.
XX AC
XX ADO26610;
XX XX
XX 12-AUG-2004 (first entry)
XX DT
XX Synthetic leader sequence encoding DNA SEQ ID NO:3.
XX DE
XX phenotype; phenotypic preference; phenotype modulation; leader; ds.
XX KW
XX Synthetic.
XX OS
XX WO2004042059-A1.
XX PN
XX 21-MAY-2004.
XX PD
XX 10-NOV-2003; 2003WO-AU001487.
XX PF
XX 08-NOV-2002; 2002US-0425163P.
XX PR
XX (UYQU ) UNIV QUEENSLAND.
XX PA

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XX Frazer IH;
XX PI
XX WPI; 2004-411519/38.
XX DR P-PSDB; ADO26611.
XX XX
XX Constructing synthetic polynucleotide for modulating the quality of a
XX selected phenotype displayed by an organism comprises replacing a first
XX PT codon with a synonymous codon to construct the synthetic polynucleotide.
XX PT
XX Example 1; SEQ ID NO 3; 86pp; English.
XX PS
XX The present invention describes a method for constructing a synthetic
XX CC polynucleotide from which a polypeptide is producible to confer a
XX CC selected phenotype to an organism of interest or part in a different
XX CC quality than that conferred by a parent polynucleotide that encodes the
XX CC same polypeptide. The method comprises: (a) selecting a first codon of
XX CC the parent polynucleotide for replacement with a synonymous codon, where
XX CC the synonymous codon is selected on the basis that it exhibits a
XX CC different phenotypic preference than the first codon in a comparison of
XX CC phenotypic preferences in test organisms or parts, where the test
XX CC organism are selected from organisms of the same species as the organism
XX CC of interest and organisms that are related to the organisms of interest;
XX CC and (b) replacing the first codon with the synonymous codon to construct
XX CC the synthetic polynucleotide. Also described: (1) a method for
XX CC determining the phenotypic preference of a first codon in an organism of
XX CC interest or its parts; (2) a synthetic polynucleotide constructed from
XX CC the method above; (3) an organism or interest or part containing a
XX CC synthetic polynucleotide constructed from the method above; (4) an
XX CC organism or interest or part containing a synthetic construct that
XX CC comprises a regulatory polynucleotide operably linked to a tandem repeat
XX CC of a first codon fused in frame with a reporter polynucleotide that
XX CC encodes a reporter protein, which produces, or is predicted to produce a
XX CC selected phenotype or a phenotype of the same class as the selected
XX CC phenotype in the organism or part; (5) a method of modulating the quality
XX CC of a selected phenotype that is displayed by an organism of interest or
XX CC part and that results from the expression of a parent polynucleotide that
XX CC encodes the polypeptide; (6) a method of enhancing the quality of a
XX CC selected phenotype that is displayed by an organism of interest or part
XX CC and that results from the expression of a parent polynucleotide that
XX CC encodes the polypeptide; and (7) a method of reducing the quality of a
XX CC selected phenotype that is displayed by an organism of interest or part
XX CC and that results from the expression of a parent polynucleotide that
XX CC encodes the polypeptide. The method is useful for constructing a
XX CC synthetic polynucleotide from which a polypeptide is producible to confer
XX CC a selected phenotype to an organism of interest or part in a different
XX CC quality than that conferred by a parent polynucleotide that encodes the
XX CC same polypeptide. It is useful for modulating the quality of a selected
XX CC phenotype displayed by an organism or part. The present sequence encodes
XX CC a synthetic leader sequence, which is used in an example from the present
XX CC invention.
XX CC
XX Sequence 18 BP; 6 A; 6 C; 6 G; 0 T; 0 U; 0 Other;
XX SQ
    Query Match 0.5%; Score 15.4; DB 1; Length 18;
    Best Local Similarity 94.1%; Pred. No. 1.4e+02;
    Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
    QY 644 GCAGCAGCGGCGAGCAGC 660
    Db 1 GCAGCAGCAGCAGCAGC 17
    ||||| |||||
    ||||| |||||

RESULT 224
ADO26612
ID ADO26612 standard; DNA; 18 BP.
XX AC
XX ADO26612;
XX XX
XX 12-AUG-2004 (first entry)
XX DT
XX Synthetic leader sequence encoding DNA SEQ ID NO:5.
XX DE
XX XX

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KW phenotype; phenotypic preference; phenotype modulation; leader; ds.  
 OS Synthetic.  
 PN WO2004042059-A1.  
 XX 21-MAY-2004.  
 PD 10-NOV-2003; 2003WO-AU001487.  
 XX 08-NOV-2002; 2002US-0425163P.  
 PF (UYQU ) UNIV QUEENSLAND.  
 XX Frazer IH;  
 XX WPI; 2004-411519/38.  
 DR P-PSDB; ADO26613.  
 XX Constructing synthetic polynucleotide for modulating the quality of a  
 PT selected phenotype displayed by an organism comprises replacing a first  
 PT codon with a synonymous codon to construct the synthetic polynucleotide.  
 XX Example 1; SEQ ID NO 5; 86pp; English.  
 PS The present invention describes a method for constructing a synthetic  
 XX polynucleotide from which a polypeptide is producible to confer a  
 CC selected phenotype to an organism of interest or part in a different  
 CC quality than that conferred by a parent polynucleotide that encodes the  
 CC same polypeptide. The method comprises: (a) selecting a first codon of  
 CC the parent polynucleotide for replacement with a synonymous codon, where  
 CC the synonymous codon is selected on the basis that it exhibits a  
 CC different phenotypic preference than the first codon in a comparison of  
 CC phenotypic preferences in test organisms or parts, where the test  
 CC organism are selected from organisms of the same species as the organism  
 CC of interest and organisms that are related to the organisms of interest;  
 CC and (b) replacing the first codon with the synonymous codon to construct;  
 CC the synthetic polynucleotide. Also described: (1) a method for  
 CC determining the phenotypic preference of a first codon in an organism of  
 CC interest or its parts; (2) a synthetic polynucleotide constructed from  
 CC the method above; (3) an organism or interest or part containing a  
 CC synthetic polynucleotide constructed from the method above; (4) an  
 CC organism or interest or part containing a synthetic construct that  
 CC comprises a regulatory polynucleotide operably linked to a tandem repeat  
 CC of a first codon fused in frame with a reporter polynucleotide that  
 CC encodes a reporter protein, which produces, or is predicted to produce a  
 CC selected phenotype or a phenotype of the same class as the selected  
 CC phenotype in the organism or part; (5) a method of modulating the quality  
 CC of a selected phenotype that is displayed by an organism of interest or  
 CC part and that results from the expression of a parent polynucleotide that  
 CC encodes the polypeptide; (6) a method of enhancing the quality of a  
 CC selected phenotype that is displayed by an organism of interest or part  
 CC and that results from the expression of a parent polynucleotide that  
 CC encodes the polypeptide. The method is useful for constructing a  
 CC synthetic polynucleotide from which a polypeptide is producible to confer  
 CC a selected phenotype to an organism of interest or part in a different  
 CC quality than that conferred by a parent polynucleotide that encodes the  
 CC same polypeptide. It is useful for modulating the quality of a selected  
 CC phenotype displayed by an organism or part. The present sequence encodes  
 CC a synthetic leader sequence, which is used in an example from the present  
 XX invention.  
 SQ Sequence 18 BP; 0 A; 6 C; 12 G; 0 T; 0 U; 0 Other;

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
 Best Local Similarity 94.1%; Pred. No. 1.4e+02;  
 Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGGCGGCGGC 675  
 |||||||||

Db 1 GCGGCGGCGGCGGC 17  
 RESULT 225  
 ADO26614/c  
 ID ADO26614 standard; DNA; 18 BP.  
 XX ADO26614;  
 AC ADO26614;  
 XX 12-AUG-2004 (first entry)  
 DT Synthetic leader sequence encoding DNA SEQ ID NO:7.  
 XX phenotype; phenotypic preference; phenotype modulation; leader; ds.  
 KW Synthetic.  
 OS WO2004042059-A1.  
 XX 21-MAY-2004.  
 PD 10-NOV-2003; 2003WO-AU001487.  
 PF 08-NOV-2002; 2002US-0425163P.  
 XX (UYQU ) UNIV QUEENSLAND.  
 PA Frazer IH;  
 PI WPI; 2004-411519/38.  
 XX P-PSDB; ADO26615.  
 DR Constructing synthetic polynucleotide for modulating the quality of a  
 XX selected phenotype displayed by an organism comprises replacing a first  
 XX codon with a synonymous codon to construct the synthetic polynucleotide.  
 PS Example 1; SEQ ID NO 7; 86pp; English.  
 XX The present invention describes a method for constructing a synthetic  
 CC polynucleotide from which a polypeptide is producible to confer a  
 CC selected phenotype to an organism of interest or part in a different  
 CC quality than that conferred by a parent polynucleotide that encodes the  
 CC same polypeptide. The method comprises: (a) selecting a first codon of  
 CC the parent polynucleotide for replacement with a synonymous codon, where  
 CC the synonymous codon is selected on the basis that it exhibits a  
 CC different phenotypic preference than the first codon in a comparison of  
 CC phenotypic preferences in test organisms or parts, where the test  
 CC organism are selected from organisms of the same species as the organism  
 CC of interest and organisms that are related to the organisms of interest;  
 CC and (b) replacing the first codon with the synonymous codon to construct;  
 CC the synthetic polynucleotide. Also described: (1) a method for  
 CC determining the phenotypic preference of a first codon in an organism of  
 CC interest or its parts; (2) a synthetic polynucleotide constructed from  
 CC the method above; (3) an organism or interest or part containing a  
 CC synthetic polynucleotide constructed from the method above; (4) an  
 CC organism or interest or part containing a synthetic construct that  
 CC comprises a regulatory polynucleotide operably linked to a tandem repeat  
 CC of a first codon fused in frame with a reporter polynucleotide that  
 CC encodes a reporter protein, which produces, or is predicted to produce a  
 CC selected phenotype or a phenotype of the same class as the selected  
 CC phenotype in the organism or part; (5) a method of modulating the quality  
 CC of a selected phenotype that is displayed by an organism of interest or  
 CC part and that results from the expression of a parent polynucleotide that  
 CC encodes the polypeptide; (6) a method of enhancing the quality of a  
 CC selected phenotype that is displayed by an organism of interest or part  
 CC and that results from the expression of a parent polynucleotide that  
 CC encodes the polypeptide. The method is useful for constructing a  
 CC synthetic polynucleotide from which a polypeptide is producible to confer  
 CC a selected phenotype to an organism of interest or part in a different  
 CC quality than that conferred by a parent polynucleotide that encodes the  
 CC same polypeptide. It is useful for modulating the quality of a selected  
 CC phenotype displayed by an organism or part. The present sequence encodes  
 CC a synthetic leader sequence, which is used in an example from the present  
 XX invention.

CC same polypeptide. It is useful for modulating the quality of a selected  
 CC phenotype displayed by an organism or part. The present sequence encodes  
 CC a synthetic leader sequence, which is used in an example from the present  
 CC invention.

XX Sequence 18 BP; 0 A; 6 C; 6 G; 6 T; 0 U; 0 Other;

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
 Best Local Similarity 94.1%; Pred. No. 1.4e+02;  
 Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGC 660  
 Db 17 GCAGCAGCAGCAGCAGC 1

RESULT 226  
 ADO26616/c  
 ID ADO26616 standard; DNA; 18 BP.

XX ADO26616;

XX 12-AUG-2004 (first entry)

XX Synthetic leader sequence encoding DNA SEQ ID NO:9.

XX phenotype; phenotypic preference; phenotype modulation; leader; ds.

XX Synthetic.

XX WO2004042059-A1.

XX 21-MAY-2004.

XX 10-NOV-2003; 2003WO-AU001487.

XX 08-NOV-2002; 2002US-0425163P.

XX (UYQU ) UNIV QUEENSLAND.

XX Frazer IH;

XX WPI: 2004-411519/38.

XX P-PSDB; ADO26617.

XX Constructing synthetic polynucleotide for modulating the quality of a  
 PT selected phenotype displayed by an organism comprises replacing a first  
 PT codon with a synonymous codon to construct the synthetic polynucleotide.

XX Example 1; SEQ ID NO 9; 86pp; English.

XX The present invention describes a method for constructing a synthetic  
 CC polynucleotide from which a polypeptide is producible to confer a  
 CC selected phenotype to an organism of interest or part in a different  
 CC quality than that conferred by a parent polynucleotide that encodes the  
 CC same polypeptide. The method comprises: (a) selecting a first codon of  
 CC the parent polynucleotide for replacement with a synonymous codon, where  
 CC the synonymous codon is selected on the basis that it exhibits a  
 CC different phenotypic preference than the first codon in a comparison of  
 CC phenotypic preferences in test organisms or parts, where the test  
 CC organism are selected from organisms of the same species as the organism  
 CC of interest and organisms that are related to the organisms of interest;  
 CC and (b) replacing the first codon with the synonymous codon to construct  
 CC the synthetic polynucleotide. Also described: (1) a method for  
 CC determining the phenotypic preference of a first codon in an organism of  
 CC interest or its parts; (2) a synthetic polynucleotide constructed from  
 CC the method above; (3) an organism or interest or part containing a  
 CC synthetic polynucleotide constructed from the method above; (4) an  
 CC organism or interest or part containing a synthetic construct that  
 CC comprises a regulatory polynucleotide operably linked to a tandem repeat  
 CC of a first codon fused in frame with a reporter polynucleotide that  
 CC encodes a reporter protein, which produces, or is predicted to produce a  
 CC selected phenotype or a phenotype of the same class as the selected

CC phenotype in the organism or part; (5) a method of modulating the quality  
 CC of a selected phenotype that is displayed by an organism of interest or  
 CC part and that results from the expression of a parent polynucleotide that  
 CC encodes the polypeptide; (6) a method of enhancing the quality of a  
 CC selected phenotype that is displayed by an organism of interest or part  
 CC and that results from the expression of a parent polynucleotide that  
 CC encodes the polypeptide; and (7) a method of reducing the quality of a  
 CC selected phenotype that is displayed by an organism of interest or part  
 CC and that results from the expression of a parent polynucleotide that  
 CC encodes the polypeptide. The method is useful for constructing a  
 CC synthetic polynucleotide from which a polypeptide is producible to confer  
 CC a selected phenotype to an organism of interest or part in a different  
 CC quality than that conferred by a parent polynucleotide that encodes the  
 CC same polypeptide. It is useful for modulating the quality of a selected  
 CC phenotype displayed by an organism or part. The present sequence encodes  
 CC a synthetic leader sequence, which is used in an example from the present  
 CC invention.

XX Sequence 18 BP; 0 A; 12 C; 6 G; 0 T; 0 U; 0 Other;

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
 Best Local Similarity 94.1%; Pred. No. 1.4e+02;  
 Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGCGCGCGCGCGGC 675

Db 17 GCGCGCGCGCGCGGC 1

RESULT 227

ADO26626/c

ID ADO26626 standard; DNA; 18 BP.

XX ADO26626;

XX 12-AUG-2004 (first entry)

XX Synthetic leader sequence encoding DNA SEQ ID NO:19.

XX phenotype; phenotypic preference; phenotype modulation; leader; ds.

XX Synthetic.

XX WO2004042059-A1.

XX 21-MAY-2004.

XX 10-NOV-2003; 2003WO-AU001487.

XX 08-NOV-2002; 2002US-0425163P.

XX (UYQU ) UNIV QUEENSLAND.

XX Frazer IH;

XX WPI: 2004-411519/38.

XX P-PSDB; ADO26827.

XX Constructing synthetic polynucleotide for modulating the quality of a  
 PT selected phenotype displayed by an organism comprises replacing a first  
 PT codon with a synonymous codon to construct the synthetic polynucleotide.

XX Example 1; SEQ ID NO 19; 86pp; English.

XX The present invention describes a method for constructing a synthetic  
 CC polynucleotide from which a polypeptide is producible to confer a  
 CC selected phenotype to an organism of interest or part in a different  
 CC quality than that conferred by a parent polynucleotide that encodes the  
 CC same polypeptide. The method comprises: (a) selecting a first codon of  
 CC the parent polynucleotide for replacement with a synonymous codon, where  
 CC the synonymous codon is selected on the basis that it exhibits a  
 CC different phenotypic preference than the first codon in a comparison of  
 CC phenotypic preferences in test organisms or parts, where the test

CC organism are selected from organisms of the same species as the organism  
 CC of interest and organisms that are related to the organisms of interest;  
 CC and (b) replacing the first codon with the synonymous codon to construct  
 CC the synthetic polynucleotide. Also described: (1) a method for  
 CC determining the phenotypic preference of a first codon in an organism of  
 CC interest or its parts; (2) a synthetic polynucleotide constructed from  
 CC the method above; (3) an organism or interest or part containing a  
 CC synthetic polynucleotide constructed from the method above; (4) an  
 CC organism or interest or part containing a synthetic construct that  
 CC comprises a regulatory polynucleotide operably linked to a tandem repeat  
 CC of a first codon fused in frame with a reporter polynucleotide that  
 CC encodes a reporter protein, which produces, or is predicted to produce a  
 CC selected phenotype or a phenotype of the same class as the selected  
 CC phenotype in the organism or part; (5) a method of modulating the quality  
 CC of a selected phenotype that is displayed by an organism of interest or  
 CC part and that results from the expression of a parent polynucleotide that  
 CC encodes the polypeptide; (6) a method of enhancing the quality of a  
 CC selected phenotype that is displayed by an organism of interest or part  
 CC and that results from the expression of a parent polynucleotide that  
 CC encodes the polypeptide; and (7) a method of reducing the quality of a  
 CC selected phenotype that is displayed by an organism of interest or part  
 CC and that results from the expression of a parent polynucleotide that  
 CC encodes the polypeptide. The method is useful for constructing a  
 CC synthetic polynucleotide from which a polypeptide is producible to confer  
 CC a selected phenotype to an organism of interest or part in a different  
 CC quality than that conferred by a parent polynucleotide that encodes the  
 CC same polypeptide. It is useful for modulating the quality of a selected  
 CC phenotype displayed by an organism or part. The present sequence encodes  
 CC a synthetic leader sequence, which is used in an example from the present  
 CC invention.

SQ Sequence 18 BP; 6 A; 0 C; 12 G; 0 T; 0 U; 0 Other;

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
 Best Local Similarity 94.1%; Pred. No. 1.4e+02;  
 Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 273 CCTCTCTCTCTCTCCACC 289

Db 18 CCTCTCTCTCTCTCC 2

RESULT 228

ADO26628/c  
 ID ADO26628 standard; DNA; 18 BP.

AC ADO26628;

XX 12-AUG-2004 (first entry)

DE Synthetic leader sequence encoding DNA SEQ ID NO:21.

KW phenotype; phenotypic preference; phenotype modulation; leader; ds.

OS Synthetic.

PN WO2004042059-A1.

XX 21-MAY-2004.

PF 10-NOV-2003; 2003WO-AU001487.

PR 08-NOV-2002; 2002US-0425163P.

XX (UYQU ) UNIV QUEENSLAND.

PI Frazer IH;

DR WPI; 2004-411519/38.

XX P-PSDB; ADO26629.

PT Constructing synthetic polynucleotide for modulating the quality of a  
 PT selected phenotype displayed by an organism comprises replacing a first

PT codon with a synonymous codon to construct the synthetic polynucleotide.

XX Example 1; SEQ ID NO 21; 86pp; English.

CC The present invention describes a method for constructing a synthetic  
 CC polynucleotide from which a polypeptide is producible to confer a  
 CC selected phenotype to an organism of interest or part in a different  
 CC quality than that conferred by a parent polynucleotide that encodes the  
 CC same polypeptide. The method comprises: (a) selecting a first codon of  
 CC the parent polynucleotide for replacement with a synonymous codon, where  
 CC the synonymous codon is selected on the basis that it exhibits a  
 CC different phenotypic preference than the first codon in a comparison of  
 CC phenotypic preferences in test organisms or parts, where the test  
 CC organism are selected from organisms of the same species as the organism  
 CC of interest and organisms that are related to the organisms of interest;  
 CC and (b) replacing the first codon with the synonymous codon to construct  
 CC the synthetic polynucleotide. Also described: (1) a method for  
 CC determining the phenotypic preference of a first codon in an organism of  
 CC interest or its parts; (2) a synthetic polynucleotide constructed from  
 CC the method above; (3) an organism or interest or part containing a  
 CC synthetic polynucleotide constructed from the method above; (4) an  
 CC organism or interest or part containing a synthetic construct that  
 CC comprises a regulatory polynucleotide operably linked to a tandem repeat  
 CC of a first codon fused in frame with a reporter polynucleotide that  
 CC encodes a reporter protein, which produces, or is predicted to produce a  
 CC selected phenotype or a phenotype of the same class as the selected  
 CC phenotype in the organism or part; (5) a method of modulating the quality  
 CC of a selected phenotype that is displayed by an organism of interest or  
 CC part and that results from the expression of a parent polynucleotide that  
 CC encodes the polypeptide; (6) a method of enhancing the quality of a  
 CC selected phenotype that is displayed by an organism of interest or part  
 CC and that results from the expression of a parent polynucleotide that  
 CC encodes the polypeptide; and (7) a method of reducing the quality of a  
 CC selected phenotype that is displayed by an organism of interest or part  
 CC and that results from the expression of a parent polynucleotide that  
 CC encodes the polypeptide. The method is useful for constructing a  
 CC synthetic polynucleotide from which a polypeptide is producible to confer  
 CC a selected phenotype to an organism of interest or part in a different  
 CC quality than that conferred by a parent polynucleotide that encodes the  
 CC same polypeptide. It is useful for modulating the quality of a selected  
 CC phenotype displayed by an organism or part. The present sequence encodes  
 CC a synthetic leader sequence, which is used in an example from the present  
 CC invention.

SQ Sequence 18 BP; 0 A; 12 C; 6 G; 0 T; 0 U; 0 Other;

Query Match 0.5%; Score 15.4; DB 1; Length 18;

Best Local Similarity 94.1%; Pred. No. 1.4e+02;

Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 659 GCGGCGGCGGCGGCGC 675

Db 18 GCGGCGGCGGCGGCGC 2

RESULT 229

ADO26638/c

ID ADO26638 standard; DNA; 18 BP.

XX ADO26638;

XX 12-AUG-2004 (first entry)

DE Synthetic leader sequence encoding DNA SEQ ID NO:31.

KW phenotype; phenotypic preference; phenotype modulation; leader; ds.

OS Synthetic.

XX WO2004042059-A1.

XX 21-MAY-2004.

PF 10-NOV-2003; 2003WO-AU001487.  
XX  
PR 08-NOV-2002; 2002US-0425163P.  
XX  
PA (UYQU ) UNIV QUEENSLAND.  
XX  
PI Frazer IH;  
XX  
DR WPI; 2004-411519/38.  
XX  
DR P-PSDB; ADO26639.  
XX  
PT Constructing synthetic polynucleotide for modulating the quality of a  
PT selected phenotype displayed by an organism comprises replacing a first  
PT codon with a synonymous codon to construct the synthetic polynucleotide.  
XX  
PS Example 1; SEQ ID NO 31; 86pp; English.  
XX  
XX The present invention describes a method for constructing a synthetic  
CC polynucleotide from which a polypeptide is producible to confer a  
CC selected phenotype to an organism of interest or part in a different  
CC quality than that conferred by a parent polynucleotide that encodes the  
CC same polypeptide. The method comprises: (a) selecting a first codon of  
CC the parent polynucleotide for replacement with a synonymous codon, where  
CC the synonymous codon is selected on the basis that it exhibits a  
CC different phenotypic preference than the first codon in a comparison of  
CC phenotypic preferences in test organisms or parts, where the test  
CC organism are selected from organisms of the same species as the organism  
CC of interest and organisms that are related to the organisms of interest;  
CC and (b) replacing the first codon with the synonymous codon to construct  
CC the synthetic polynucleotide. Also described: (1) a method for  
CC determining the phenotypic preference of a first codon in an organism of  
CC interest or its parts; (2) a synthetic polynucleotide constructed from  
CC the method above; (3) an organism of interest or part containing a  
CC synthetic polynucleotide constructed from the method above; (4) an  
CC organism of interest or part containing a synthetic construct that  
CC comprises a regulatory polynucleotide operably linked to a tandem repeat  
CC of a first codon fused in frame with a reporter polynucleotide that  
CC encodes a reporter protein, which produces, or is predicted to produce a  
CC selected phenotype or a phenotype of the same class as the selected  
CC phenotype in the organism or part; (5) a method of modulating the quality  
CC of a selected phenotype that is displayed by an organism of interest or  
CC part and that results from the expression of a parent polynucleotide that  
CC encodes the polypeptide; (6) a method of enhancing the quality of a  
CC selected phenotype that is displayed by an organism of interest or part  
CC and that results from the expression of a parent polynucleotide that  
CC encodes the polypeptide; and (7) a method of reducing the quality of a  
CC selected phenotype that is displayed by an organism of interest or part  
CC and that results from the expression of a parent polynucleotide that  
CC encodes the polypeptide. The method is useful for constructing a  
CC synthetic polynucleotide from which a polypeptide is producible to confer  
CC a selected phenotype to an organism of interest or part in a different  
CC quality than that conferred by a parent polynucleotide that encodes the  
CC same polypeptide. It is useful for modulating the quality of a selected  
CC phenotype displayed by an organism or part. The present sequence encodes  
CC a synthetic leader sequence, which is used in an example from the present  
CC invention.  
XX  
SQ Sequence 18 BP; 0 A; 6 C; 6 G; 6 T; 0 U; 0 Other;  
Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.4e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
OY 644 GCAGCAGCGGCAGCAGC 660  
||| ||||| ||||| |||||  
DB 18 GCAGCAGCAGCAGCAGC 2  
RESULT 230  
ADO26650/c  
ID ADO26650 standard; DNA; 18 BP.  
XX  
AC ADO26650;

XX  
DT 12-AUG-2004 (first entry)  
XX  
DE Synthetic leader sequence encoding DNA SEQ ID NO:43.  
XX  
KW phenotype; phenotypic preference; phenotype modulation; leader; ds.  
XX  
OS Synthetic.  
XX  
PN WO2004042059-A1.  
XX  
PD 21-MAY-2004.  
XX  
PF 10-NOV-2003; 2003WO-AU001487.  
XX  
PR 08-NOV-2002; 2002US-0425163P.  
XX  
XX (UYQU ) UNIV QUEENSLAND.  
PA  
PI Frazer IH;  
XX  
XX WPI; 2004-411519/38.  
DR  
DR P-PSDB; ADO26651.  
XX  
PT Constructing synthetic polynucleotide for modulating the quality of a  
PT selected phenotype displayed by an organism comprises replacing a first  
PT codon with a synonymous codon to construct the synthetic polynucleotide.  
XX  
PS Example 1; SEQ ID NO 43; 86pp; English.  
XX  
XX The present invention describes a method for constructing a synthetic  
CC polynucleotide from which a polypeptide is producible to confer a  
CC selected phenotype to an organism of interest or part in a different  
CC quality than that conferred by a parent polynucleotide that encodes the  
CC same polypeptide. The method comprises: (a) selecting a first codon of  
CC the parent polynucleotide for replacement with a synonymous codon, where  
CC the synonymous codon is selected on the basis that it exhibits a  
CC different phenotypic preference than the first codon in a comparison of  
CC phenotypic preferences in test organisms or parts, where the test  
CC organism are selected from organisms of the same species as the organism  
CC of interest and organisms that are related to the organisms of interest;  
CC and (b) replacing the first codon with the synonymous codon to construct  
CC the synthetic polynucleotide. Also described: (1) a method for  
CC determining the phenotypic preference of a first codon in an organism of  
CC interest or its parts; (2) a synthetic polynucleotide constructed from  
CC the method above; (3) an organism of interest or part containing a  
CC synthetic polynucleotide constructed from the method above; (4) an  
CC organism of interest or part containing a synthetic construct that  
CC comprises a regulatory polynucleotide operably linked to a tandem repeat  
CC of a first codon fused in frame with a reporter polynucleotide that  
CC encodes a reporter protein, which produces, or is predicted to produce a  
CC selected phenotype or a phenotype of the same class as the selected  
CC phenotype in the organism or part; (5) a method of modulating the quality  
CC of a selected phenotype that is displayed by an organism of interest or  
CC part and that results from the expression of a parent polynucleotide that  
CC encodes the polypeptide; (6) a method of enhancing the quality of a  
CC selected phenotype that is displayed by an organism of interest or part  
CC and that results from the expression of a parent polynucleotide that  
CC encodes the polypeptide; and (7) a method of reducing the quality of a  
CC selected phenotype that is displayed by an organism of interest or part  
CC and that results from the expression of a parent polynucleotide that  
CC encodes the polypeptide. The method is useful for constructing a  
CC synthetic polynucleotide from which a polypeptide is producible to confer  
CC a selected phenotype to an organism of interest or part in a different  
CC quality than that conferred by a parent polynucleotide that encodes the  
CC same polypeptide. It is useful for modulating the quality of a selected  
CC phenotype displayed by an organism or part. The present sequence encodes  
CC a synthetic leader sequence, which is used in an example from the present  
CC invention.  
XX  
SQ Sequence 18 BP; 6 A; 0 C; 12 G; 0 T; 0 U; 0 Other;  
Query Match 0.5%; Score 15.4; DB 1; Length 18;





organism or interest or part containing a synthetic construct that comprises a regulatory polynucleotide operably linked to a tandem repeat of a first codon fused in frame with a reporter polynucleotide that encodes a reporter protein, which produces, or is predicted to produce a selected phenotype or a phenotype of the same class as the selected phenotype in the organism or part; (5) a method of modulating the quality of a selected phenotype that is displayed by an organism of interest or part and that results from the expression of a parent polynucleotide that encodes the polypeptide; (6) a method of enhancing the quality of a selected phenotype that is displayed by an organism of interest or part and that results from the expression of a parent polynucleotide that encodes the polypeptide; and (7) a method of reducing the quality of a selected phenotype that is displayed by an organism of interest or part and that results from the expression of a parent polynucleotide that encodes the polypeptide. The method is useful for constructing a synthetic polynucleotide from which a polypeptide is producible to confer a selected phenotype to an organism of interest or part in a different quality than that conferred by a parent polynucleotide that encodes the same polypeptide. It is useful for modulating the quality of a selected phenotype displayed by an organism or part. The present sequence encodes a synthetic leader sequence, which is used in an example from the present invention.

Sequence 18 BP; 0 A; 12 C; 0 G; 6 T; 0 U; 0 Other;

Query Match 0.5%; Score 15.4; DB 1; Length 18;

Best Local Similarity 94.1%; Pred. No. 1.4e+02; Mismatches 1; Indels 0; Gaps 0;

Matches 16; Conservative 0;

QY 273 CCTCTCTCTCTCTCCACC 289  
 |||||  
 Db 1 CCTCTCTCTCTCTCTCC 17

RESULT 233

ADO26696

ID ADO26696 standard; DNA; 18 BP.

XX ADO26696;

AC ADO26696;

XX ADO26696;

DT 12-AUG-2004 (first entry)

XX Synthetic leader sequence encoding DNA SEQ ID NO:89.

DE phenotype; phenotypic preference; phenotype modulation; leader; ds.

KW Synthetic.

OS WO2004042059-A1.

XX 21-MAY-2004.

XX 10-NOV-2003; 2003WO-AU001487.

PF 08-NOV-2002; 2002US-0425163P.

XX (UYQU ) UNIV QUEENSLAND.

PA Frazer IH;

XX WPI; 2004-411519/38.

DR P-PSDB; ADO26697.

XX Constructing synthetic polynucleotide for modulating the quality of a

PT selected phenotype displayed by an organism comprises replacing a first

PT codon with a synonymous codon to construct the synthetic polynucleotide.

XX Example 1; SEQ ID NO 89; 86pp; English.

PS The present invention describes a method for constructing a synthetic

XX polynucleotide from which a polypeptide is producible to confer a

CC selected phenotype to an organism of interest or part in a different

CC quality than that conferred by a parent polynucleotide that encodes the

same polypeptide. The method comprises: (a) selecting a first codon of the parent polynucleotide for replacement with a synonymous codon, where the synonymous codon is selected on the basis that it exhibits a different phenotypic preference than the first codon in a comparison of phenotypic preferences in test organisms or parts, where the test organism are selected from organisms of the same species as the organism of interest and organisms that are related to the organisms of interest; and (b) replacing the first codon with the synonymous codon to construct the synthetic polynucleotide. Also described: (1) a method for determining the phenotypic preference of a first codon in an organism of interest or its parts; (2) a synthetic polynucleotide constructed from the method above; (3) an organism of interest or part containing a synthetic polynucleotide constructed from the method above; (4) an organism of interest or part containing a synthetic construct that comprises a regulatory polynucleotide operably linked to a tandem repeat of a first codon fused in frame with a reporter polynucleotide that encodes a reporter protein, which produces, or is predicted to produce a selected phenotype or a phenotype of the same class as the selected phenotype in the organism or part; (5) a method of modulating the quality of a selected phenotype that is displayed by an organism of interest or part and that results from the expression of a parent polynucleotide that encodes the polypeptide; (6) a method of enhancing the quality of a selected phenotype that is displayed by an organism of interest or part and that results from the expression of a parent polynucleotide that encodes the polypeptide; and (7) a method of reducing the quality of a selected phenotype that is displayed by an organism of interest or part and that results from the expression of a parent polynucleotide that encodes the polypeptide. The method is useful for constructing a synthetic polynucleotide from which a polypeptide is producible to confer a selected phenotype to an organism of interest or part in a different quality than that conferred by a parent polynucleotide that encodes the same polypeptide. It is useful for modulating the quality of a selected phenotype displayed by an organism or part. The present sequence encodes a synthetic leader sequence, which is used in an example from the present invention.

Sequence 18 BP; 6 A; 6 C; 6 G; 0 T; 0 U; 0 Other;

Query Match 0.5%; Score 15.4; DB 1; Length 18;

Best Local Similarity 94.1%; Pred. No. 1.4e+02;

Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGC 660

|||||

Db 2 GCAGCAGCAGCAGCAGC 18

RESULT 234

ADO26706

ID ADO26706 standard; DNA; 18 BP.

XX ADO26706;

AC ADO26706;

XX 12-AUG-2004 (first entry)

XX Synthetic leader sequence encoding DNA SEQ ID NO:99.

DE phenotype; phenotypic preference; phenotype modulation; leader; ds.

KW Synthetic.

OS WO2004042059-A1.

XX 21-MAY-2004.

XX 10-NOV-2003; 2003WO-AU001487.

PF 08-NOV-2002; 2002US-0425163P.

XX (UYQU ) UNIV QUEENSLAND.

PA Frazer IH;

XX

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DR WPI: 2004-411519/38.
XX F-PSDB; ADO26707.
PT Constructing synthetic polynucleotide for modulating the quality of a
PT selected phenotype displayed by an organism comprises replacing a first
PT codon with a synonymous codon to construct the synthetic polynucleotide.
XX
XX Example 1; SEQ ID NO 99; 86pp; English.
XX
XX The present invention describes a method for constructing a synthetic
XX polynucleotide from which a polypeptide is producible to confer a
XX selected phenotype to an organism of interest or part in a different
XX quality than that conferred by a parent polynucleotide that encodes the
XX same polypeptide. The method comprises: (a) selecting a first codon of
XX the parent polynucleotide for replacement with a synonymous codon, where
XX the synonymous codon is selected on the basis that it exhibits a
XX different phenotypic preference than the first codon in a comparison of
XX phenotypic preferences in test organisms or parts, where the test
XX organism are selected from organisms of the same species as the organism
XX of interest and organisms that are related to the organisms of interest;
XX and (b) replacing the first codon with the synonymous codon to construct
XX the synthetic polynucleotide. Also described: (1) a method for
XX determining the phenotypic preference of a first codon in an organism of
XX interest or its parts; (2) a synthetic polynucleotide constructed from
XX the method above; (3) an organism of interest or part containing a
XX synthetic polynucleotide constructed from the method above; (4) an
XX organism of interest or part containing a synthetic construct that
XX comprises a regulatory polynucleotide operably linked to a tandem repeat
XX of a first codon fused in frame with a reporter polynucleotide that
XX encodes a reporter protein, which produces, or is predicted to produce a
XX selected phenotype or a phenotype of the same class as the selected
XX phenotype in the organism or part; (5) a method of modulating the quality
XX of a selected phenotype that is displayed by an organism of interest or
XX part and that results from the expression of a parent polynucleotide that
XX encodes the polypeptide; (6) a method of enhancing the quality of a
XX selected phenotype that is displayed by an organism of interest or part
XX and that results from the expression of a parent polynucleotide that
XX encodes the polypeptide; and (7) a method of reducing the quality of a
XX selected phenotype that is displayed by an organism of interest or part
XX and that results from the expression of a parent polynucleotide that
XX encodes the polypeptide. The method is useful for constructing a
XX synthetic polynucleotide from which a polypeptide is producible to confer
XX a selected phenotype to an organism of interest or part in a different
XX quality than that conferred by a parent polynucleotide that encodes the
XX same polypeptide. It is useful for modulating the quality of a selected
XX phenotype displayed by an organism or part. The present sequence encodes
XX a synthetic leader sequence, which is used in an example from the present
XX invention.
SQ Sequence 18 BP; 0 A; 12 C; 0 G; 6 T; 0 U; 0 Other;
Query Match 0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 273 CCTCTCTCTCTCCACC 289
Db 2 CCTCTCTCTCTCTCC 18
RESULT 235
ADP45833/c
ID ADP45833 standard; DNA; 18 BP.
XX
XX ADP45833;
XX
XX 26-AUG-2004 (first entry)
XX
XX Extend primer 25 used to genotype human ICAM-1/ICAM-4/ICAM-5 SNP.
XX
XX breast cancer; cytostatic; gene therapy; human;
XX intercellular adhesion molecule; ICAM-1; human rhinovirus receptor; BB2;
XX CD54; cell surface glycoprotein P3.58; ICAM-4;
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KW Landsteiner-Wiener blood group; ICAM-5; telencephalin; chromosome 19p13;
KW ss; primer; PCR; SNP; single nucleotide polymorphism; probe.
XX
XX Homo sapiens.
XX WO2004047623-A2.
XX
XX 10-JUN-2004.
XX
XX 25-NOV-2003; 2003WO-US037948.
XX
XX 25-NOV-2002; 2002US-0429136P.
XX 24-JUL-2003; 2003US-0490234P.
XX (SEQU-) SEQUENOM INC.
XX
XX Roth RB, Nelson MR, Braun A, Kammerer SM, Reneland R;
XX WPI; 2004-441051/41.
XX
XX Identifying a subject at risk of breast cancer by detecting the presence
XX of polymorphic variations in the ICAM, MAPK10, KIAA0861, NUMA1 or GALE
XX regions which are associated with breast cancer in a nucleic acid sample
XX from a subject.
XX
XX Example 4; Page 83; 289pp; English.
XX
XX The invention relates to a novel method for identifying a subject at risk
XX of breast cancer comprising detecting the presence or absence of one or
XX more polymorphic variations associated with breast cancer in a nucleic
XX acid sample from a subject. The method of the invention has cytostatic
XX applications and may be useful for identifying a subject at risk of
XX breast cancer, for early diagnosis, prevention and treatment of breast
XX cancer, possibly via gene therapy, as well as to analyse and predict a
XX response to a breast cancer treatment and in clinical drug trials. The
XX current sequence is that of an extend primer (also described as probe) of
XX the invention which was used to genotype human intercellular adhesion
XX molecule ICAM-1/ICAM-4/ICAM-5 gDNA. ICAM-1 (human rhinovirus receptor;BB2
XX ;CD54;cell surface glycoprotein P3.58) has been mapped to chromosomal
XX position 19p13.3-p13.2, ICAM-4 (Landsteiner-Wiener blood group;LW) has
XX been mapped to chromosomal position 19p13.2-cen and ICAM-5
XX (telencephalin) has been mapped to chromosomal position 19p13.2.
SQ Sequence 18 BP; 4 A; 5 C; 6 G; 3 T; 0 U; 0 Other;
Query Match 0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2252 CAGTGTCTCTCACACCTGT 2268
Db 17 CAGTGTCTCTCACACCTGT 1
RESULT 236
ADW86862
ID ADW86862 standard; DNA; 18 BP.
XX
XX ADW86862;
XX
XX 07-APR-2005 (first entry)
XX
XX Protein labelling method sequence #64.
XX
XX DNA purification; protein engineering; diagnosis; ss.
XX
XX Unidentified.
XX
XX WO2004113530-A1.
XX
XX 29-DEC-2004.
XX
XX 18-JUN-2004; 2004WO-JP008953.
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XX 18-JUN-2003; 2003JP-00173634.
PR (MITU ) MITSUBISHI CHEM CORP.
XX
XX Naka D, Nakano H, Shiratori M, Kobayashi T, Suzuki K;
PI Hashimoto H, Sasaki T;
PI
XX WPI; 2005-075248/08.
XX
XX Novel polynucleotide having ability to increase labeling efficiency of
PT labeling compound, useful for synthesizing labeled protein in presence of
PT labeling compound.
XX
XX Disclosure; Fig 10; 140pp; Japanese.
XX
XX The invention relates to a polynucleotide (I) for synthesizing labeled
CC protein and having ability to increase labeling efficiency of labeling
CC compound, where protein is produced by adding labeling compound to 3',
CC terminal of sequence encoding target protein of gene template, where
CC labeling compound has label portion and acceptor portion having compound
CC capable of binding to C-terminus of label portion and translating gene
CC template in presence of labeled compound. (I) is useful for producing a
CC labeling protein, which involves preparing a gene template by adding (I)
CC to the 3'-terminal of base sequence encoding the target protein.
CC translating the gene template in the presence of the labeling compound
CC containing acceptor portion and label portion, and obtaining protein
CC synthesized in the translation system. The base sequence encoding the
CC target protein either contains the termination codon or does not contain
CC the termination codon. The labeling compound is added after the
CC initiation of the translation. The labeled protein (LPI) is useful in a
CC performance-analysis of a protein, which involves contacting the test
CC substance with (LPI), and analyzing the interaction between the protein
CC and the test substance. (I) has the ability to increase labeling
CC efficiency of a labeling compound and thus effectively produces labeled
CC protein. This sequence corresponds to a sequence used in the method of
CC the invention.
XX
XX SQ Sequence 18 BP; 0 A; 6 C; 12 G; 0 T; 0 U; 0 Other;
Query Match 0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 659 GCGGCGCGCGCGGGGC 675
Db 1 GCGGCGCGCGCGCGGC 17
RESULT 237
ADX99052/C
ID ADX99052 standard; DNA; 18 BP.
XX
XX AC ADX99052;
XX
XX DT 05-MAY-2005 (first entry)
XX
XX DE Extend primer 49 used to genotype human ICAM region SNP DNA.
XX
XX SNP detection; breast tumor; endocrine disease;
KW gynecology and obstetrics; neoplasm; cytostatic; metastasis;
KW gene therapy; RNA interference; intercellular adhesion molecule; ICAM1;
KW ICAM4; ICAM5; ss; PCR; primer.
XX
XX OS Homo sapiens.
XX
XX PN WO2005014846-A2.
XX
XX PD 17-FEB-2005.
XX
XX PF 27-MAY-2004; 2004WO-US016939.
XX
XX PR 24-JUL-2003; 2003US-0490234P.
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PR 25-NOV-2003; 2003US-00723681.
PR 25-NOV-2003; 2003US-0525239P.
XX
XX (SEQU-) SEQUENOM INC.
XX
XX Roth RB, Nelson MR, Braun A, Kammerer SM, Reneland R;
PI Hoyal-Wrightson CR;
XX
XX WPI; 2005-163257/17.
XX
XX Identifying risk of, preventing and/or treating breast cancer by
PT identifying and/or analyzing polymorphic variations in nucleotide
PT sequences within the human genome.
XX
XX Example 4; Page 106; 617pp; English.
XX
XX The invention relates to a novel method for identifying a subject at risk
CC of breast cancer comprising detecting the presence or absence of a
CC polymorphic variation associated with breast cancer. The method of the
CC invention demonstrates cytostatic activity and may be useful for
CC identifying a risk of, preventing and/or treating breast cancer and
CC cancer metastasis. The methods may be utilized for gene therapy or RNA
CC interference. The current sequence is that of an Extend primer of the
CC invention which was used to genotype a human intercellular adhesion
CC molecule (ICAM1, ICAM4, ICAM5) region single nucleotide polymorphism
CC (SNP).
XX
XX SQ Sequence 18 BP; 4 A; 5 C; 6 G; 3 T; 0 U; 0 Other;
Query Match 0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2252 CAGTGTCTCACACCTGT 2268
Db 17 CAGTGTCTCACACCTGT 1
RESULT 238
ADP84516
ID ADP84516 standard; RNA; 19 BP.
XX
XX AC ADP84516;
XX
XX DT 26-FEB-2004 (first entry)
XX
XX DE Human ABL1-targeted siRNA - SEQ ID 810.
XX
XX KW short interfering nucleic acid; siRNA; breakpoint cluster region;
KW v-abl Abelson murine leukaemia viral oncogene homologue 1; BCR-ABL;
KW cytostatic; leukaemia; lymphoma; human; ss; siRNA; ABL1.
XX
XX OS Homo sapiens.
XX
XX PN WO2003070972-A2.
XX
XX PD 28-AUG-2003.
XX
XX PF 20-FEB-2003; 2003WO-US005234.
XX
XX PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 06-JUN-2002; 2002US-0386782P.
PR 15-AUG-2002; 2002US-0404039P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 14-JAN-2003; 2003US-0439922P.
PR 15-JAN-2003; 2003US-0440129P.
XX
XX (RIBO-) RIBOZYME PHARM INC.
XX
XX Mcsviggen J, Beigelman L, Chowrira B;
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XX WPI; 2003-679889/64.  
XX New double-stranded interfering nucleic acid, useful e.g. for treatment  
PT and diagnosis of leukemia and lymphoma, downregulates the breakpoint  
PT cluster region-Abelson (BCR-ABL) gene.  
XX Example 7; SEQ ID NO 810; 197pp; English.  
XX The invention relates to a novel double-stranded short interfering  
CC nucleic acid (siRNA) that downregulates expression of the breakpoint  
CC cluster region-v-abl Abelson murine leukaemia viral oncogene homologue 1  
CC (BCR-ABL) gene. The siRNA of the invention demonstrates cytostatic  
CC activity and may be useful for modulating expression of the BCR-ABL gene,  
CC as well as for treating leukaemia or lymphoma and in diagnosis, drug  
CC screening, target identification and validation, genetic engineering,  
CC gene function studies and gene mapping. The current sequence is that of  
CC the human ABL1-targeted siRNA of the invention.  
XX Sequence 19 BP; 3 A; 9 C; 6 G; 0 T; 1 U; 0 Other;  
SQ Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 370 GCCCAAGCGGAGCCC 386  
DB 2 GCCCAGCGCGAGCCC 18  
RESULT 239  
ADP84835/c  
ID ADF84835 standard; RNA; 19 BP.  
AC ADP84835;  
XX 26-FEB-2004 (first entry)  
XX Human ABL1-targeted siRNA - SEQ ID 1129.  
XX short interfering nucleic acid; siRNA; breakpoint cluster region;  
KW v-abl Abelson murine leukaemia viral oncogene homologue 1; BCR-ABL;  
KW cytostatic; leukaemia; lymphoma; human; ss; siRNA; ABL1.  
XX Homo sapiens.  
XX WO2003070972-A2.  
XX 28-AUG-2003.  
XX 20-FEB-2003; 2003WO-US005234.  
XX 20-FEB-2002; 2002US-0358580P.  
PR 11-MAR-2002; 2002US-0363124P.  
PR 06-JUN-2002; 2002US-0386782P.  
PR 15-AUG-2002; 2002US-0404039P.  
PR 29-AUG-2002; 2002US-0406784P.  
PR 05-SEP-2002; 2002US-0408378P.  
PR 09-SEP-2002; 2002US-0409293P.  
PR 14-JAN-2003; 2003US-0439922P.  
PR 15-JAN-2003; 2003US-0440129P.  
XX (RIBO-) RIBOZYME PHARM INC.  
XX Mcswiggen J, Beigelman L, Chowrira B;  
PI WPI; 2003-679889/64.  
XX New double-stranded interfering nucleic acid, useful e.g. for treatment  
PT and diagnosis of leukemia and lymphoma, downregulates the breakpoint  
PT cluster region-Abelson (BCR-ABL) gene.  
XX Example 7; SEQ ID NO 1129; 197pp; English.

XX The invention relates to a novel double-stranded short interfering  
CC nucleic acid (siRNA) that downregulates expression of the breakpoint  
CC cluster region-v-abl Abelson murine leukaemia viral oncogene homologue 1  
CC (BCR-ABL) gene. The siRNA of the invention demonstrates cytostatic  
CC activity and may be useful for modulating expression of the BCR-ABL gene,  
CC as well as for treating leukaemia or lymphoma and in diagnosis, drug  
CC screening, target identification and validation, genetic engineering,  
CC gene function studies and gene mapping. The current sequence is that of  
CC the human ABL1-targeted siRNA of the invention.  
XX Sequence 19 BP; 1 A; 6 C; 9 G; 0 T; 3 U; 0 Other;  
SQ Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 370 GCCCAAGCGGAGCCC 386  
DB 18 GCCCAGCGCGAGCCC 2  
RESULT 240  
ADL69803/c  
ID ADL69803 standard; RNA; 19 BP.  
XX AC ADL69803;  
XX 20-MAY-2004 (first entry)  
XX Human GIP transcript target sequence/siRNA upper strand, SEQ ID NO:24.  
XX RNA interference; short interfering nucleic acid; siRNA;  
KW short interfering RNA; siRNA; double-stranded RNA; micro-RNA; miRNA;  
KW short hairpin RNA; shRNA; expression modulation; gene therapy;  
KW drug screening; diagnosis; therapeutic target identification;  
KW pharmacogenomics; gene function analysis; gene mapping; obesity;  
KW type 1 diabetes; type 2 diabetes; anorectic; antidiabetic; human;  
KW gastric inhibitory polypeptide; GIP; target sequence; ss.  
XX Homo sapiens.  
XX WO2003070968-A2.  
XX 28-AUG-2003.  
XX 18-FEB-2003; 2003WO-US004907.  
XX 20-FEB-2002; 2002US-0358580P.  
PR 11-MAR-2002; 2002US-0363124P.  
PR 06-JUN-2002; 2002US-0386782P.  
PR 29-AUG-2002; 2002US-0406784P.  
PR 09-SEP-2002; 2002US-0409293P.  
PR 15-JAN-2003; 2003US-0440129P.  
XX (RIBO-) RIBOZYME PHARM INC.  
XX Mcswiggen J, Beigelman L, Usman N;  
PI WPI; 2003-697624/66.  
XX New short interfering nucleic acid, useful e.g. for treatment and  
PT diagnosis of obesity and diabetes, downregulates expression of the gene  
PT for gastric inhibitory polypeptide receptor.  
XX Example 3; SEQ ID NO 24; 141pp; English.  
XX The invention relates to short interfering nucleic acids (siNA) which  
CC downregulate expression of the human gastric inhibitory polypeptide (GIP)  
CC or the GIP receptor (GIPr) gene by RNA interference. The siNAs may or may  
CC not comprise ribonucleotides and may be double or single stranded. They  
CC further comprise sense and antisense regions, or alternatively are  
CC assembled from a sense oligonucleotide and an antisense oligonucleotide.

CC Specifically, the siNAs include short interfering RNA (siRNA), double-stranded RNA, micro-RNA (miRNA) and short hairpin RNA (shRNA). The siNAs can be unmodified or chemically modified, can contain deoxyribonucleotides, and can be chemically synthesised, expressed from a vector or enzymatically synthesised. The invention also relates to kits for the in vitro or in vivo delivery of siNA, conjugates and/or complexes of siNA; and vectors that express siNA. The siNAs are used to modulate expression of the GIPr gene in cells, tissue explants or organisms (e.g., by ex vivo gene therapy), or in grafts and transplants for the treatment of a variety of conditions. They may be used for treating treating obesity or type 1 or 2 diabetes. The siNAs are also useful for drug screening, diagnosis, pharmacogenomics, studying gene function, and gene mapping (e.g., of single nucleotide polymorphisms). The present sequence represents the upper strand of a human GIP-targeted double-stranded siNA, which is identical to the GIP transcript target sequence.

XX Sequence 19 BP; 7 A; 1 C; 11 G; 0 T; 0 U; 0 Other;

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 270 CTGCTCTCTCTCTCTCTCC 286  
Db 19 CTGCTCTCTCTCTCTCTC 3

RESULT 241  
ADL69843  
ID ADL69843 standard; RNA; 19 BP.  
AC ADL69843;  
XX 20-MAY-2004 (first entry)  
XX Human GIP siNA lower strand, SEQ ID NO:64.  
XX RNA interference; short interfering nucleic acid; siNA;  
KW short interfering RNA; siRNA; double-stranded RNA; micro-RNA; miRNA;  
KW short hairpin RNA; shRNA; expression modulation; gene therapy;  
KW drug screening; diagnosis; therapeutic target identification;  
KW pharmacogenomics; gene function analysis; gene mapping; obesity;  
KW type 1 diabetes; type 2 diabetes; anorectic; antidiabetic; human;  
KW Gastric inhibitory polypeptide; GIP; ss.  
XX Homo sapiens.  
XX WO2003070968-A2.  
XX 28-AUG-2003.  
XX 18-FEB-2003; 2003WO-US004907.  
XX 20-FEB-2002; 2002US-0358580P.  
PR 11-MAR-2002; 2002US-0363124P.  
PR 06-JUN-2002; 2002US-0386782P.  
PR 29-AUG-2002; 2002US-0406784P.  
PR 09-SEP-2002; 2002US-0409293P.  
PR 15-JAN-2003; 2003US-0440129P.  
XX (RIBO-) RIBOZYME PHARM INC.  
PA Mcswiggen J, Beigelman L, Usman N;  
XX WPI; 2003-697624/66.  
XX New short interfering nucleic acid, useful e.g. for treatment and  
PT diagnosis of obesity and diabetes, downregulates expression of the gene  
PT for gastric inhibitory polypeptide receptor.  
XX Example 3; SEQ ID NO 64; 141pp; English.

CC The invention relates to short interfering nucleic acids (siNA) which downregulate expression of the human gastric inhibitory polypeptide (GIP) or the GIP receptor (GIPr) gene by RNA interference. The siNAs may or may not comprise ribonucleotides and may be double or single stranded. They further comprise sense and antisense regions, or alternatively are assembled from a sense oligonucleotide and an antisense oligonucleotide. Specifically, the siNAs include short interfering RNA (siRNA), double-stranded RNA, micro-RNA (miRNA) and short hairpin RNA (shRNA). The siNAs can be unmodified or chemically modified, can contain deoxyribonucleotides, and can be chemically synthesised, expressed from a vector or enzymatically synthesised. The invention also relates to kits for the in vitro or in vivo delivery of siNA; conjugates and/or complexes of siNA; and vectors that express siNA. The siNAs are used to modulate expression of the GIPr gene in cells, tissue explants or organisms (e.g., by ex vivo gene therapy), or in grafts and transplants for the treatment of a variety of conditions. They may be used for treating treating obesity or type 1 or 2 diabetes. The siNAs are also useful for drug screening, diagnosis, therapeutic target identification and validation, genetic engineering, pharmacogenomics, studying gene function, and gene mapping (e.g., of single nucleotide polymorphisms). The present sequence represents the lower strand of a human GIP-targeted double-stranded siNA.

XX Sequence 19 BP; 0 A; 11 C; 1 G; 0 T; 7 U; 0 Other;

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 64.7%; Pred. No. 1.5e+02;  
Matches 11; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 270 CTGCTCTCTCTCTCTCTCC 286  
Db 1 CUGCCUCCUCCUCCUCC 17

RESULT 242  
ADV66299  
ID ADV66299 standard; DNA; 19 BP.  
XX ADV66299;  
AC ADV66299;  
DT 10-FEB-2005 (first entry)  
XX Netrin-G2 antisense RACE primer NSRias.  
DE Netrin-G2 antisense RACE primer NSRias.  
XX NETRIN-G2; neurological disease; neuroprotective; RACE; PCR; primer; ss.  
XX Synthetic.  
XX CN1490324-A.  
XX 21-APR-2004.  
XX 12-NOV-2002; 2002CN-00139751.  
PR 12-NOV-2002; 2002CN-00139751.  
XX (UYHU-) UNIV HUNAN NORMAL.  
XX Wu X, Liu M, Li D;  
XX WPI; 2004-488418/47.  
XX Human gene NETRIN-G2 related to nervous system development.  
PT Disclosure; Page 9; 14pp; Chinese.  
XX The present invention relates to a novel human gene NETRIN-G2 associated with the development of nervous system. The NETRIN-G2 gene is located at chromosome 9q34. The NETRIN-G2 gene and protein may be used for the CC medicine to treat the diseases in nervous system. The present sequence is a PCR primer used to illustrate the invention.  
XX Sequence 19 BP; 1 A; 10 C; 2 G; 6 T; 0 U; 0 Other;

Job time : 10 secs

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 291 CCTCCTCCTCCTTCG 307  
Db 2 CCTCCTCCTCCTTCG 18

RESULT 243

ADY02915  
ID ADY02915 standard; DNA; 19 BP.

XX AC ADY02915;

XX DT 05-MAY-2005 (first entry)

XX DE Extend primer 365 used to genotype human DPF3 SNP DNA.

XX KW SNP detection; breast tumor; endocrine disease;  
KW gynecology and obstetrics; neoplasm; cytostatic;  
KW gene therapy; RNA interference; ss; PCR; primer;  
KW D4, zinc and double PHD fingers, family 3; DPF3;  
KW guanine-nucleotide exchange factor.

XX OS Homo sapiens.

XX PN WO2005014846-A2.

XX PD 17-FEB-2005.

XX PF 27-MAY-2004; 2004WO-US016939.

XX PR 24-JUL-2003; 2003US-0490234P.

XX PR 25-NOV-2003; 2003US-00723681.

XX PR 25-NOV-2003; 2003US-0525239P.

XX PA (SEQU-) SEQUENOM INC.

XX PI Roth RB, Nelson MR, Braun A, Kammerer SM, Reneland R;

XX PI Hoyal-Wrightson CR;

XX DR WPI; 2005-163257/17.

XX PT Identifying risk of, preventing and/or treating breast cancer by

XX PT identifying and/or analyzing polymorphic variations in nucleotide

XX PT sequences within the human genome.

XX PS Example 16; Page 258; 617pp; English.

XX CC The invention relates to a novel method for identifying a subject at risk  
XX CC of breast cancer comprising detecting the presence or absence of a  
XX CC polymorphic variation associated with breast cancer. The method of the  
XX CC invention demonstrates cytostatic activity and may be useful for  
XX CC identifying a risk of, preventing and/or treating breast cancer and  
XX CC cancer metastasis. The methods may be utilized for gene therapy or RNA  
XX CC interference. The current sequence is that of an Extend primer of the  
XX CC invention which was used to genotype a human rho-family guanine-  
XX CC nucleotide exchange factor D4, zinc and double PHD fingers, family 3  
XX CC (DPF3) single nucleotide polymorphism (SNP).

SQ Sequence 19 BP; 5 A; 6 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+02;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2785 TCCCTGCGCAGCGTG 2801  
Db 3 TCCATGCCAGCGTG 19

Search completed: February 7, 2006, 14:33:34

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: February 7, 2006, 14:44:03 ; Search time 109 Seconds  
(without alignments)  
3.674 Million cell updates/sec

Title: rrpcp2858  
Perfect score: 2858  
Sequence: 1 GGGCTTCTCTGCTTTCT.....GGGGTCACTGCTTCACTAGC 2858

Scoring table: IDENTITY NUC  
Gapop 10\_0 , Gapext 0.5

Searched: 3544 seqs, 70055 residues

Total number of hits satisfying chosen parameters: 7088

Minimum DB seq length: 8  
Maximum DB seq length: 80

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 3547 summaries

Database : fetchrnpbn.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	25	0.9	25	1 US-11-136-527-146800	Sequence 146800,
3	25	0.9	25	1 US-11-136-527-146801	Sequence 146801,
4	25	0.9	25	1 US-11-136-527-146802	Sequence 146802,
5	25	0.9	25	1 US-11-136-527-146803	Sequence 146803,
6	25	0.9	25	1 US-11-136-527-146804	Sequence 146804,
7	25	0.9	25	1 US-11-136-527-146805	Sequence 146805,
8	25	0.9	25	1 US-11-136-527-146806	Sequence 146806,
9	25	0.9	25	1 US-11-136-527-146807	Sequence 146807,
10	25	0.9	25	1 US-11-136-527-146808	Sequence 146808,
11	25	0.9	25	1 US-11-136-527-146809	Sequence 146809,
12	25	0.9	25	1 US-11-136-527-146810	Sequence 146810,
13	25	0.9	25	1 US-11-136-527-146811	Sequence 146811,
14	25	0.9	25	1 US-11-136-527-146812	Sequence 146812,
15	25	0.9	25	1 US-11-136-527-146813	Sequence 146813,
16	25	0.9	25	1 US-11-136-527-146814	Sequence 146814,
17	25	0.9	25	1 US-11-136-527-146815	Sequence 146815,
18	25	0.9	25	1 US-11-136-527-146816	Sequence 146816,
19	25	0.9	25	1 US-11-136-527-146817	Sequence 146817,
20	25	0.9	25	1 US-11-136-527-146818	Sequence 146818,
21	25	0.9	25	1 US-11-136-527-146819	Sequence 146819,
22	25	0.9	25	1 US-11-136-527-146820	Sequence 146820,
23	25	0.9	25	1 US-11-136-527-146821	Sequence 146821,
24	25	0.9	25	1 US-11-136-527-146822	Sequence 146822,
25	25	0.9	25	1 US-11-136-527-146823	Sequence 146823,
26	25	0.9	25	1 US-11-136-527-146824	Sequence 146824,
27	25	0.9	25	1 US-11-136-527-146825	Sequence 146825,
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30	25	0.9	25	1 US-11-136-527-146828	Sequence 146828,
31	25	0.9	25	1 US-11-136-527-146829	Sequence 146829,
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49	25	0.9	25	1 US-11-136-527-354220	Sequence 354220,
50	25	0.9	25	1 US-11-136-527-354221	Sequence 354221,
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54	25	0.9	25	1 US-11-136-527-354225	Sequence 354225,
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60	25	0.9	25	1 US-11-136-527-354231	Sequence 354231,
61	25	0.9	25	1 US-11-136-527-354232	Sequence 354232,
62	25	0.9	25	1 US-11-136-527-354233	Sequence 354233,
63	25	0.9	25	1 US-11-136-527-354234	Sequence 354234,
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65	25	0.9	25	1 US-11-136-527-354236	Sequence 354236,
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78	25	0.9	25	1 US-11-136-527-354249	Sequence 354249,
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92	25	0.9	25	1 US-11-136-527-354263	Sequence 354263,
93	23.8	0.8	28	1 US-10-310-914A-221991	Sequence 221991,
94	23.4	0.8	25	1 US-11-121-849-154868	Sequence 154868,
95	23.4	0.8	25	1 US-11-121-849-227096	Sequence 227096,
96	23.4	0.8	25	1 US-11-121-849-227097	Sequence 227097,
97	23.4	0.8	25	1 US-11-121-849-227102	Sequence 227102,
98	22.8	0.8	26	1 US-10-310-914A-238168	Sequence 238168,
99	22.8	0.8	26	1 US-10-310-914A-969289	Sequence 969289,
100	22.8	0.8	26	1 US-10-310-914A-969290	Sequence 969290,
101	22.2	0.8	27	1 US-10-310-914A-229031	Sequence 229031,
102	22.2	0.8	27	1 US-10-310-914A-339244	Sequence 339244,
103	22.2	0.8	27	1 US-10-310-914A-838210	Sequence 838210,
104	22.2	0.8	27	1 US-10-858-341-008	Sequence 808, App
105	22	0.8	22	1 US-10-310-914A-706718	Sequence 706718,
106	21.8	0.8	25	1 US-10-310-914A-163375	Sequence 163375,

C 107	21.8	0.8	25	1	US-10-310-914A-221993	Sequence 221993,	180	20.2	0.7	25	1	US-11-121-849-154865	Sequence 154865,
C 108	21.8	0.8	25	1	US-10-310-914A-353983	Sequence 353983,	181	20.2	0.7	25	1	US-11-121-849-227098	Sequence 227098,
C 109	21.8	0.8	25	1	US-10-310-914A-381472	Sequence 381472,	c 182	20.2	0.7	25	1	US-11-121-849-317319	Sequence 317319,
C 110	21.8	0.8	25	1	US-10-310-914A-562898	Sequence 562898,	c 183	20.2	0.7	25	1	US-11-121-849-441903	Sequence 441903,
C 111	21.8	0.8	25	1	US-10-310-914A-681400	Sequence 681400,	c 184	20.2	0.7	25	1	US-11-136-527-274409	Sequence 274409,
C 112	21.8	0.8	25	1	US-11-121-849-154864	Sequence 154864,	185	20	0.7	21	1	US-10-310-914A-193359	Sequence 193359,
C 113	21.8	0.8	25	1	US-11-121-849-154867	Sequence 154867,	186	20	0.7	21	1	US-10-310-914A-253777	Sequence 253777,
C 114	21.8	0.8	25	1	US-11-121-849-154869	Sequence 154869,	c 187	19.8	0.7	23	1	US-10-310-914A-1036931	Sequence 1036931,
C 115	21.8	0.8	25	1	US-11-121-849-227104	Sequence 227104,	188	19.8	0.7	23	1	US-10-310-914A-114285	Sequence 114285,
C 116	21.8	0.8	25	1	US-11-136-527-128258	Sequence 128258,	189	19.8	0.7	23	1	US-10-310-914A-1170910	Sequence 1170910,
C 117	21.8	0.8	26	1	US-10-310-914A-1036932	Sequence 1036932,	190	19.8	0.7	23	1	US-10-310-914A-1170911	Sequence 1170911,
C 118	21.8	0.8	26	1	US-10-310-914A-339243	Sequence 339243,	191	19.8	0.7	23	1	US-10-310-914A-1170920	Sequence 1170920,
C 119	21.8	0.8	26	1	US-10-310-914A-341346	Sequence 341346,	192	19.8	0.7	23	1	US-10-310-914A-1170921	Sequence 1170921,
C 120	21.8	0.8	26	1	US-10-310-914A-353984	Sequence 353984,	193	19.8	0.7	23	1	US-10-310-914A-117096	Sequence 117096,
C 121	21.8	0.8	26	1	US-10-310-914A-548890	Sequence 548890,	194	19.8	0.7	23	1	US-10-310-914A-117105	Sequence 117105,
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C 123	21.8	0.8	27	1	US-10-310-914A-238180	Sequence 238180,	c 196	19.8	0.7	23	1	US-10-310-914A-163373	Sequence 163373,
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C 125	21.8	0.8	27	1	US-10-310-914A-91457	Sequence 91457, A	198	19.8	0.7	23	1	US-10-310-914A-188845	Sequence 188845,
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C 128	21.4	0.7	23	1	US-10-310-914A-253750	Sequence 253750,	c 201	19.8	0.7	23	1	US-10-310-914A-223646	Sequence 223646,
C 129	21.4	0.7	23	1	US-10-310-914A-339967	Sequence 339967,	c 202	19.8	0.7	23	1	US-10-310-914A-226055	Sequence 226055,
C 130	21.4	0.7	23	1	US-10-310-914A-381470	Sequence 381470,	c 203	19.8	0.7	23	1	US-10-310-914A-229029	Sequence 229029,
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C 132	21.4	0.7	24	1	US-10-310-914A-548884	Sequence 548884,	c 205	19.8	0.7	23	1	US-10-310-914A-241950	Sequence 241950,
C 133	21.4	0.7	24	1	US-10-310-914A-548888	Sequence 548888,	c 206	19.8	0.7	23	1	US-10-310-914A-243577	Sequence 243577,
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C 135	21.2	0.7	26	1	US-10-310-914A-255939	Sequence 255939,	c 208	19.8	0.7	23	1	US-10-310-914A-261033	Sequence 261033,
C 136	21.2	0.7	26	1	US-10-310-914A-380381	Sequence 380381,	c 209	19.8	0.7	23	1	US-10-310-914A-341345	Sequence 341345,
C 137	21.2	0.7	26	1	US-10-310-914A-57110	Sequence 57110, A	c 210	19.8	0.7	23	1	US-10-310-914A-381448	Sequence 381448,
C 138	21.2	0.7	26	1	US-10-310-914A-704966	Sequence 704966,	c 211	19.8	0.7	23	1	US-10-310-914A-426641	Sequence 426641,
C 139	21	0.7	22	1	US-10-310-914A-625783	Sequence 625783,	c 212	19.8	0.7	23	1	US-10-310-914A-436797	Sequence 436797,
C 140	21	0.7	24	1	US-10-310-914A-253748	Sequence 253748,	c 213	19.8	0.7	23	1	US-10-310-914A-463647	Sequence 463647,
C 141	20.8	0.7	24	1	US-10-310-914A-238166	Sequence 238166,	c 214	19.8	0.7	23	1	US-10-310-914A-463725	Sequence 463725,
C 142	20.8	0.7	24	1	US-10-310-914A-238167	Sequence 238167,	c 215	19.8	0.7	23	1	US-10-310-914A-495448	Sequence 495448,
C 143	20.8	0.7	24	1	US-10-310-914A-238179	Sequence 238179,	c 216	19.8	0.7	23	1	US-10-310-914A-51712	Sequence 51712, A
C 144	20.8	0.7	24	1	US-10-310-914A-339242	Sequence 339242,	c 217	19.8	0.7	23	1	US-10-310-914A-545412	Sequence 545412,
C 145	20.8	0.7	24	1	US-10-310-914A-416390	Sequence 416390,	c 218	19.8	0.7	23	1	US-10-310-914A-545435	Sequence 545435,
C 146	20.8	0.7	24	1	US-10-310-914A-562897	Sequence 562897,	c 219	19.8	0.7	23	1	US-10-310-914A-838145	Sequence 838145,
C 147	20.8	0.7	24	1	US-10-310-914A-79761	Sequence 79761, A	c 220	19.8	0.7	23	1	US-10-310-914A-87753	Sequence 87753, A
C 148	20.8	0.7	24	1	US-10-310-914A-969288	Sequence 969288,	c 221	19.8	0.7	23	1	US-10-310-914A-89784	Sequence 89784, A
C 149	20.8	0.7	25	1	US-10-310-914A-169345	Sequence 169345,	c 222	19.8	0.7	23	1	US-10-310-914A-899418	Sequence 899418,
C 150	20.8	0.7	25	1	US-10-310-914A-169345	Sequence 169345,	c 223	19.8	0.7	23	1	US-10-310-914A-91419	Sequence 91419, A
C 151	20.8	0.7	25	1	US-10-310-914A-301497	Sequence 301497,	c 224	19.8	0.7	23	1	US-10-310-914A-91422	Sequence 91422, A
C 152	20.8	0.7	25	1	US-10-310-914A-163376	Sequence 163376,	c 225	19.8	0.7	23	1	US-10-310-914A-969286	Sequence 969286,
C 153	20.8	0.7	25	1	US-10-310-914A-548882	Sequence 548882,	c 226	19.8	0.7	23	1	US-10-310-914A-969287	Sequence 969287,
C 154	20.8	0.7	25	1	US-10-310-914A-969275	Sequence 969275,	c 227	19.8	0.7	23	1	US-10-310-914A-980396	Sequence 980396,
C 155	20.8	0.7	25	1	US-11-121-849-247099	Sequence 247099,	c 228	19.8	0.7	24	1	US-10-310-914A-202523	Sequence 202523,
C 156	20.8	0.7	25	1	US-11-136-527-128224	Sequence 128224,	c 229	19.8	0.7	24	1	US-10-310-914A-229030	Sequence 229030,
C 157	20.8	0.7	25	1	US-11-136-527-128250	Sequence 128250,	c 230	19.8	0.7	24	1	US-10-310-914A-275581	Sequence 275581,
C 158	20.4	0.7	22	1	US-10-310-914A-107659	Sequence 107659,	c 231	19.8	0.7	24	1	US-10-310-914A-301500	Sequence 301500,
C 159	20.4	0.7	22	1	US-10-310-914A-163376	Sequence 163376,	c 232	19.8	0.7	24	1	US-10-310-914A-416391	Sequence 416391,
C 160	20.4	0.7	22	1	US-10-310-914A-548882	Sequence 548882,	c 233	19.8	0.7	24	1	US-10-310-914A-432642	Sequence 432642,
C 161	20.4	0.7	22	1	US-10-310-914A-548887	Sequence 548887,	c 234	19.8	0.7	24	1	US-10-310-914A-585076	Sequence 585076,
C 162	20.4	0.7	22	1	US-10-310-914A-562895	Sequence 562895,	c 235	19.8	0.7	24	1	US-10-310-914A-59489	Sequence 59489, A
C 163	20.4	0.7	23	1	US-10-310-914A-168015	Sequence 168015,	c 236	19.8	0.7	24	1	US-10-310-914A-718993	Sequence 718993,
C 164	20.4	0.7	23	1	US-10-310-914A-168016	Sequence 168016,	c 237	19.8	0.7	24	1	US-10-310-914A-726798	Sequence 726798,
C 165	20.4	0.7	23	1	US-10-310-914A-193909	Sequence 193909,	c 238	19.8	0.7	24	1	US-10-310-914A-906150	Sequence 906150,
C 166	20.4	0.7	23	1	US-10-310-914A-193947	Sequence 193947,	c 239	19.4	0.7	21	1	US-10-310-914A-117093	Sequence 117093,
C 167	20.4	0.7	23	1	US-10-310-914A-193961	Sequence 193961,	c 240	19.4	0.7	21	1	US-10-310-914A-118054	Sequence 118054,
C 168	20.4	0.7	23	1	US-10-310-914A-839827	Sequence 839827,	c 241	19.4	0.7	21	1	US-10-310-914A-221992	Sequence 221992,
C 169	20.4	0.7	23	1	US-10-310-914A-939660	Sequence 939660,	c 242	19.4	0.7	21	1	US-10-310-914A-483982	Sequence 483982,
C 170	20.4	0.7	24	1	US-10-310-914A-1162906	Sequence 1162906,	c 243	19.4	0.7	21	1	US-10-310-914A-585042	Sequence 585042,
C 171	20.2	0.7	25	1	US-10-310-914A-107656	Sequence 107656,	c 244	19.4	0.7	21	1	US-10-310-914A-743435	Sequence 743435,
C 172	20.2	0.7	25	1	US-10-310-914A-186959	Sequence 186959,	c 245	19.4	0.7	21	1	US-10-310-914A-79745	Sequence 79745, A
C 173	20.2	0.7	25	1	US-10-310-914A-279130	Sequence 279130,	c 246	19.4	0.7	21	1	US-10-310-914A-79746	Sequence 79746, A
C 174	20.2	0.7	25	1	US-10-310-914A-288994	Sequence 288994,	c 247	19.4	0.7	21	1	US-10-310-914A-79759	Sequence 79759, A
C 175	20.2	0.7	25	1	US-10-310-914A-504160	Sequence 504160,	c 248	19.4	0.7	22	1	US-10-310-914A-1162905	Sequence 1162905,
C 176	20.2	0.7	25	1	US-10-310-914A-625765	Sequence 625765,	c 249	19.4	0.7	22	1	US-10-310-914A-1170921	Sequence 1170921,
C 177	20.2	0.7	25	1	US-10-310-914A-906943	Sequence 906943,	c 250	19.4	0.7	22	1	US-10-310-914A-117099	Sequence 117099,
C 178	20.2	0.7	25	1	US-10-310-914A-947633	Sequence 947633,	c 251	19.4	0.7	22	1	US-10-310-914A-120332	Sequence 120332,
C 179	20.2	0.7	25	1	US-10-958-341-809	Sequence 809, App	c 252	19.4	0.7	22	1	US-10-310-914A-168006	Sequence 168006,

c 253	19.4	0.7	22	1	US-10-310-914A-397666	Sequence 397666,	c 326.	19.2	0.7	24	1	US-10-310-914A-416396	Sequence 416396,
c 254	19.4	0.7	22	1	US-10-310-914A-545425	Sequence 545425,	327	19.2	0.7	24	1	US-10-310-914A-42417	Sequence 42417, A
c 255	19.4	0.7	22	1	US-10-310-914A-548858	Sequence 548858,	328	19.2	0.7	24	1	US-10-310-914A-42418	Sequence 42418, A
c 256	19.4	0.7	22	1	US-10-310-914A-79762	Sequence 79762, A	329	19.2	0.7	24	1	US-10-310-914A-42419	Sequence 42419, A
c 257	19.4	0.7	22	1	US-10-310-914A-838199	Sequence 838199,	330	19.2	0.7	24	1	US-10-310-914A-42420	Sequence 42420, A
c 258	19.4	0.7	23	1	US-10-310-914A-1016846	Sequence 1016846,	c 331	19.2	0.7	24	1	US-10-310-914A-432638	Sequence 432638,
c 259	19.4	0.7	23	1	US-10-310-914A-339978	Sequence 339978,	332	19.2	0.7	24	1	US-10-310-914A-432645	Sequence 432645,
c 260	19.4	0.7	23	1	US-10-310-914A-562923	Sequence 562923,	333	19.2	0.7	24	1	US-10-310-914A-463736	Sequence 463736,
c 261	19.4	0.7	23	1	US-10-310-914A-964808	Sequence 964808,	c 334	19.2	0.7	24	1	US-10-310-914A-463736	Sequence 463736,
c 262	19.2	0.7	24	1	US-10-310-914A-100325	Sequence 100325,	c 335	19.2	0.7	24	1	US-10-310-914A-494510	Sequence 494510,
c 263	19.2	0.7	24	1	US-10-310-914A-1090775	Sequence 1090775,	c 336	19.2	0.7	24	1	US-10-310-914A-494511	Sequence 494511,
c 264	19.2	0.7	24	1	US-10-310-914A-117102	Sequence 117102,	c 337	19.2	0.7	24	1	US-10-310-914A-536237	Sequence 536237,
c 265	19.2	0.7	24	1	US-10-310-914A-1174818	Sequence 1174818,	c 338	19.2	0.7	24	1	US-10-310-914A-547117	Sequence 547117,
c 266	19.2	0.7	24	1	US-10-310-914A-1310944	Sequence 1310944,	c 339	19.2	0.7	24	1	US-10-310-914A-549687	Sequence 549687,
c 267	19.2	0.7	24	1	US-10-310-914A-1310945	Sequence 1310945,	c 340	19.2	0.7	24	1	US-10-310-914A-570431	Sequence 570431,
c 268	19.2	0.7	24	1	US-10-310-914A-1310946	Sequence 1310946,	c 341	19.2	0.7	24	1	US-10-310-914A-629655	Sequence 629655,
c 269	19.2	0.7	24	1	US-10-310-914A-1310947	Sequence 1310947,	c 342	19.2	0.7	24	1	US-10-310-914A-641630	Sequence 641630,
c 270	19.2	0.7	24	1	US-10-310-914A-1310948	Sequence 1310948,	c 343	19.2	0.7	24	1	US-10-310-914A-68935	Sequence 68935, A
c 271	19.2	0.7	24	1	US-10-310-914A-1310949	Sequence 1310949,	c 344	19.2	0.7	24	1	US-10-310-914A-69718	Sequence 69718, A
c 272	19.2	0.7	24	1	US-10-310-914A-1340165	Sequence 1340165,	c 345	19.2	0.7	24	1	US-10-310-914A-69721	Sequence 69721, A
c 273	19.2	0.7	24	1	US-10-310-914A-138528	Sequence 138528,	c 346	19.2	0.7	24	1	US-10-310-914A-715434	Sequence 715434,
c 274	19.2	0.7	24	1	US-10-310-914A-148798	Sequence 148798,	c 347	19.2	0.7	24	1	US-10-310-914A-746424	Sequence 746424,
c 275	19.2	0.7	24	1	US-10-310-914A-163371	Sequence 163371,	c 348	19.2	0.7	24	1	US-10-310-914A-78085	Sequence 78085, A
c 276	19.2	0.7	24	1	US-10-310-914A-163372	Sequence 163372,	c 349	19.2	0.7	24	1	US-10-310-914A-78086	Sequence 78086, A
c 277	19.2	0.7	24	1	US-10-310-914A-163380	Sequence 163380,	c 350	19.2	0.7	24	1	US-10-310-914A-78310	Sequence 78310, A
c 278	19.2	0.7	24	1	US-10-310-914A-167361	Sequence 167361,	c 351	19.2	0.7	24	1	US-10-310-914A-791463	Sequence 791463,
c 279	19.2	0.7	24	1	US-10-310-914A-167690	Sequence 167690,	c 352	19.2	0.7	24	1	US-10-310-914A-795954	Sequence 795954,
c 280	19.2	0.7	24	1	US-10-310-914A-167691	Sequence 167691,	c 353	19.2	0.7	24	1	US-10-310-914A-79765	Sequence 79765, A
c 281	19.2	0.7	24	1	US-10-310-914A-167692	Sequence 167692,	c 354	19.2	0.7	24	1	US-10-310-914A-79766	Sequence 79766, A
c 282	19.2	0.7	24	1	US-10-310-914A-167693	Sequence 167693,	c 355	19.2	0.7	24	1	US-10-310-914A-807649	Sequence 807649,
c 283	19.2	0.7	24	1	US-10-310-914A-167694	Sequence 167694,	c 356	19.2	0.7	24	1	US-10-310-914A-838208	Sequence 838208,
c 284	19.2	0.7	24	1	US-10-310-914A-167695	Sequence 167695,	c 357	19.2	0.7	24	1	US-10-310-914A-844403	Sequence 844403,
c 285	19.2	0.7	24	1	US-10-310-914A-167696	Sequence 167696,	c 358	19.2	0.7	24	1	US-10-310-914A-87752	Sequence 87752, A
c 286	19.2	0.7	24	1	US-10-310-914A-168035	Sequence 168035,	c 359	19.2	0.7	24	1	US-10-310-914A-899422	Sequence 899422,
c 287	19.2	0.7	24	1	US-10-310-914A-168036	Sequence 168036,	c 360	19.2	0.7	24	1	US-10-310-914A-899619	Sequence 899619,
c 288	19.2	0.7	24	1	US-10-310-914A-171811	Sequence 171811,	c 361	19.2	0.7	24	1	US-10-310-914A-906942	Sequence 906942,
c 289	19.2	0.7	24	1	US-10-310-914A-171812	Sequence 171812,	c 362	19.2	0.7	24	1	US-10-310-914A-938142	Sequence 938142,
c 290	19.2	0.7	24	1	US-10-310-914A-171813	Sequence 171813,	c 363	19.2	0.7	24	1	US-10-310-914A-94850	Sequence 94850, A
c 291	19.2	0.7	24	1	US-10-310-914A-172751	Sequence 172751,	c 364	19.2	0.7	24	1	US-10-310-914A-94851	Sequence 94851, A
c 292	19.2	0.7	24	1	US-10-310-914A-189745	Sequence 189745,	c 365	19.2	0.7	24	1	US-10-310-914A-94852	Sequence 94852, A
c 293	19.2	0.7	24	1	US-10-310-914A-189746	Sequence 189746,	c 366	19.2	0.7	24	1	US-10-310-914A-94853	Sequence 94853, A
c 294	19.2	0.7	24	1	US-10-310-914A-189747	Sequence 189747,	c 367	19.2	0.7	24	1	US-10-310-914A-983803	Sequence 983803,
c 295	19.2	0.7	24	1	US-10-310-914A-226052	Sequence 226052,	c 368	19.2	0.7	24	1	US-10-310-914A-983804	Sequence 983804,
c 296	19.2	0.7	24	1	US-10-310-914A-226053	Sequence 226053,	c 369	19.2	0.7	24	1	US-10-310-914A-983805	Sequence 983805,
c 297	19.2	0.7	24	1	US-10-310-914A-226054	Sequence 226054,	c 370	19.2	0.7	24	1	US-10-310-914A-983806	Sequence 983806,
c 298	19.2	0.7	24	1	US-10-310-914A-226055	Sequence 226055,	c 371	19.2	0.7	24	1	US-10-310-914A-939658	Sequence 939658,
c 299	19.2	0.7	24	1	US-10-310-914A-229035	Sequence 229035,	c 372	19.2	0.7	24	1	US-10-310-914A-939661	Sequence 939661,
c 300	19.2	0.7	24	1	US-10-310-914A-229036	Sequence 229036,	c 373	19.2	0.7	24	1	US-11-083-784-266197	Sequence 266197,
c 301	19.2	0.7	24	1	US-10-310-914A-255936	Sequence 255936,	c 374	19.2	0.7	24	1	US-11-083-784-266202	Sequence 266202,
c 302	19.2	0.7	24	1	US-10-310-914A-255937	Sequence 255937,	c 375	19.2	0.7	24	1	US-11-083-784-266205	Sequence 266205,
c 303	19.2	0.7	24	1	US-10-310-914A-261073	Sequence 261073,	c 376	19.2	0.7	24	1	US-11-083-784-266209	Sequence 266209,
c 304	19.2	0.7	24	1	US-10-310-914A-275927	Sequence 275927,	c 377	19.2	0.7	24	1	US-11-083-784-266216	Sequence 266216,
c 305	19.2	0.7	24	1	US-10-310-914A-280846	Sequence 280846,	c 378	19.2	0.7	24	1	US-11-083-784-266217	Sequence 266217,
c 306	19.2	0.7	24	1	US-10-310-914A-288993	Sequence 288993,	c 379	19.2	0.7	24	1	US-11-083-784-266231	Sequence 266231,
c 307	19.2	0.7	24	1	US-10-310-914A-317199	Sequence 317199,	c 380	19.2	0.7	24	1	US-11-083-784-266236	Sequence 266236,
c 308	19.2	0.7	24	1	US-10-310-914A-317200	Sequence 317200,	c 381	19.2	0.7	24	1	US-11-083-784-266242	Sequence 266242,
c 309	19.2	0.7	24	1	US-10-310-914A-317201	Sequence 317201,	c 382	19.2	0.7	24	1	US-11-083-784-266256	Sequence 266256,
c 310	19.2	0.7	24	1	US-10-310-914A-326502	Sequence 326502,	c 383	19.2	0.7	24	1	US-11-083-784-266264	Sequence 266264,
c 311	19.2	0.7	24	1	US-10-310-914A-339008	Sequence 339008,	c 384	19.2	0.7	24	1	US-11-083-784-266276	Sequence 266276,
c 312	19.2	0.7	24	1	US-10-310-914A-339018	Sequence 339018,	c 385	19.2	0.7	24	1	US-11-083-784-266279	Sequence 266279,
c 313	19.2	0.7	24	1	US-10-310-914A-341341	Sequence 341341,	c 386	19.2	0.7	24	1	US-11-083-784-266287	Sequence 266287,
c 314	19.2	0.7	24	1	US-10-310-914A-341342	Sequence 341342,	c 387	19.2	0.7	24	1	US-11-083-784-266291	Sequence 266291,
c 315	19.2	0.7	24	1	US-10-310-914A-341343	Sequence 341343,	c 388	19.2	0.7	24	1	US-11-083-784-266295	Sequence 266295,
c 316	19.2	0.7	24	1	US-10-310-914A-341344	Sequence 341344,	c 389	19.2	0.7	24	1	US-11-083-784-266296	Sequence 266296,
c 317	19.2	0.7	24	1	US-10-310-914A-374338	Sequence 374338,	c 390	19.2	0.7	24	1	US-11-083-784-266297	Sequence 266297,
c 318	19.2	0.7	24	1	US-10-310-914A-380380	Sequence 380380,	c 391	19.2	0.7	24	1	US-11-083-784-266299	Sequence 266299,
c 319	19.2	0.7	24	1	US-10-310-914A-385461	Sequence 385461,	c 392	19.2	0.7	24	1	US-11-083-784-266301	Sequence 266301,
c 320	19.2	0.7	24	1	US-10-310-914A-404929	Sequence 404929,	c 393	19.2	0.7	24	1	US-11-083-784-266302	Sequence 266302,
c 321	19.2	0.7	24	1	US-10-310-914A-406855	Sequence 406855,	c 394	19.2	0.7	24	1	US-11-083-784-266304	Sequence 266304,
c 322	19.2	0.7	24	1	US-10-310-914A-406856	Sequence 406856,	c 395	19.2	0.7	24	1	US-11-083-784-266305	Sequence 266305,
c 323	19.2	0.7	24	1	US-10-310-914A-412089	Sequence 412089,	c 396	19.2	0.7	24	1	US-11-083-784-266317	Sequence 266317,
c 324	19.2	0.7	24	1	US-10-310-914A-412090	Sequence 412090,	c 397	19.2	0.7	24	1	US-11-083-784-266318	Sequence 266318,
c 325	19.2	0.7	24	1	US-10-310-914A-412091	Sequence 412091,	c 398	19.2	0.7	24	1	US-11-083-784-266323	Sequence 266323,
					Sequence 412092,							Sequence 266333,	

399	19	0.7	19	1	US-11-083-784-266336	Sequence 266336,	c 472	18.8	0.7	22	1	US-10-310-914A-414673	Sequence 414673,
400	19	0.7	19	1	US-11-083-784-266341	Sequence 266341,	c 473	18.8	0.7	22	1	US-10-310-914A-432637	Sequence 432637,
401	19	0.7	19	1	US-11-083-784-266346	Sequence 266346,	c 474	18.8	0.7	22	1	US-10-310-914A-432653	Sequence 432653,
402	19	0.7	19	1	US-11-083-784-266350	Sequence 266350,	c 475	18.8	0.7	22	1	US-10-310-914A-432654	Sequence 432654,
403	19	0.7	19	1	US-11-083-784-266351	Sequence 266351,	476	18.8	0.7	22	1	US-10-310-914A-484811	Sequence 484811,
404	19	0.7	19	1	US-11-083-784-266352	Sequence 266352,	477	18.8	0.7	22	1	US-10-310-914A-535595	Sequence 535595,
405	19	0.7	19	1	US-11-083-784-266359	Sequence 266359,	c 478	18.8	0.7	22	1	US-10-310-914A-59488	Sequence 59488, A
406	19	0.7	19	1	US-11-083-784-266360	Sequence 266360,	c 479	18.8	0.7	22	1	US-10-310-914A-69717	Sequence 69717, A
407	19	0.7	19	1	US-11-083-784-266365	Sequence 266365,	c 480	18.8	0.7	22	1	US-10-310-914A-69745	Sequence 69745, A
408	19	0.7	19	1	US-11-101-244-266197	Sequence 266197,	c 481	18.8	0.7	22	1	US-10-310-914A-705768	Sequence 705768,
409	19	0.7	19	1	US-11-101-244-266202	Sequence 266202,	c 482	18.8	0.7	22	1	US-10-310-914A-711652	Sequence 711652,
410	19	0.7	19	1	US-11-101-244-266205	Sequence 266205,	c 483	18.8	0.7	22	1	US-10-310-914A-798847	Sequence 798847, A
411	19	0.7	19	1	US-11-101-244-266209	Sequence 266209,	c 484	18.8	0.7	22	1	US-10-310-914A-798751	Sequence 798751, A
412	19	0.7	19	1	US-11-101-244-266216	Sequence 266216,	c 485	18.8	0.7	22	1	US-10-310-914A-889437	Sequence 889437, A
413	19	0.7	19	1	US-11-101-244-266217	Sequence 266217,	c 486	18.8	0.7	22	1	US-10-310-914A-89782	Sequence 89782, A
414	19	0.7	19	1	US-11-101-244-266231	Sequence 266231,	c 487	18.8	0.7	22	1	US-10-310-914A-89783	Sequence 89783, A
415	19	0.7	19	1	US-11-101-244-266236	Sequence 266236,	c 488	18.8	0.7	22	1	US-10-310-914A-899416	Sequence 899416,
416	19	0.7	19	1	US-11-101-244-266242	Sequence 266242,	c 489	18.8	0.7	22	1	US-10-310-914A-912810	Sequence 912810,
417	19	0.7	19	1	US-11-101-244-266256	Sequence 266256,	c 490	18.8	0.7	22	1	US-10-310-914A-969284	Sequence 969284,
418	19	0.7	19	1	US-11-101-244-266264	Sequence 266264,	491	18.8	0.7	22	1	US-10-310-914A-100329	Sequence 100329,
419	19	0.7	19	1	US-11-101-244-266276	Sequence 266276,	492	18.8	0.7	23	1	US-10-310-914A-1008716	Sequence 1008716,
420	19	0.7	19	1	US-11-101-244-266279	Sequence 266279,	493	18.8	0.7	23	1	US-10-310-914A-1008724	Sequence 1008724,
421	19	0.7	19	1	US-11-101-244-266287	Sequence 266287,	c 494	18.8	0.7	23	1	US-10-310-914A-1065871	Sequence 1065871,
422	19	0.7	19	1	US-11-101-244-266289	Sequence 266291,	495	18.8	0.7	23	1	US-10-310-914A-122956	Sequence 122956,
423	19	0.7	19	1	US-11-101-244-266295	Sequence 266295,	c 496	18.8	0.7	23	1	US-10-310-914A-1295955	Sequence 1295955,
424	19	0.7	19	1	US-11-101-244-266296	Sequence 266296,	c 497	18.8	0.7	23	1	US-10-310-914A-156012	Sequence 156012,
425	19	0.7	19	1	US-11-101-244-266297	Sequence 266297,	498	18.8	0.7	23	1	US-10-310-914A-167370	Sequence 167370,
426	19	0.7	19	1	US-11-101-244-266299	Sequence 266299,	c 499	18.8	0.7	23	1	US-10-310-914A-167688	Sequence 167688,
427	19	0.7	19	1	US-11-101-244-266301	Sequence 266301,	c 500	18.8	0.7	23	1	US-10-310-914A-167689	Sequence 167689,
428	19	0.7	19	1	US-11-101-244-266302	Sequence 266302,	501	18.8	0.7	23	1	US-10-310-914A-168028	Sequence 168028,
429	19	0.7	19	1	US-11-101-244-266304	Sequence 266304,	502	18.8	0.7	23	1	US-10-310-914A-168029	Sequence 168029,
430	19	0.7	19	1	US-11-101-244-266305	Sequence 266305,	503	18.8	0.7	23	1	US-10-310-914A-168030	Sequence 168030,
431	19	0.7	19	1	US-11-101-244-266317	Sequence 266317,	504	18.8	0.7	23	1	US-10-310-914A-168031	Sequence 168031,
432	19	0.7	19	1	US-11-101-244-266318	Sequence 266318,	505	18.8	0.7	23	1	US-10-310-914A-168032	Sequence 168032,
433	19	0.7	19	1	US-11-101-244-266323	Sequence 266323,	506	18.8	0.7	23	1	US-10-310-914A-168033	Sequence 168033,
434	19	0.7	19	1	US-11-101-244-266333	Sequence 266333,	507	18.8	0.7	23	1	US-10-310-914A-168050	Sequence 168050,
435	19	0.7	19	1	US-11-101-244-266336	Sequence 266336,	508	18.8	0.7	23	1	US-10-310-914A-168051	Sequence 168051,
436	19	0.7	19	1	US-11-101-244-266341	Sequence 266341,	509	18.8	0.7	23	1	US-10-310-914A-168052	Sequence 168052,
437	19	0.7	19	1	US-11-101-244-266346	Sequence 266346,	510	18.8	0.7	23	1	US-10-310-914A-168053	Sequence 168053,
438	19	0.7	19	1	US-11-101-244-266350	Sequence 266350,	511	18.8	0.7	23	1	US-10-310-914A-168054	Sequence 168054,
439	19	0.7	19	1	US-11-101-244-266351	Sequence 266351,	512	18.8	0.7	23	1	US-10-310-914A-168055	Sequence 168055,
440	19	0.7	19	1	US-11-101-244-266352	Sequence 266352,	513	18.8	0.7	23	1	US-10-310-914A-168056	Sequence 168056,
441	19	0.7	19	1	US-11-101-244-266359	Sequence 266359,	514	18.8	0.7	23	1	US-10-310-914A-168057	Sequence 168057,
442	19	0.7	19	1	US-11-101-244-266360	Sequence 266360,	c 515	18.8	0.7	23	1	US-10-310-914A-169388	Sequence 169388,
443	19	0.7	19	1	US-11-101-244-266365	Sequence 266365,	516	18.8	0.7	23	1	US-10-310-914A-182883	Sequence 182883,
444	19	0.7	20	1	US-10-310-914A-706728	Sequence 706728,	517	18.8	0.7	23	1	US-10-310-914A-182884	Sequence 182884,
445	18.8	0.7	22	1	US-10-310-914A-1013199	Sequence 1013199,	518	18.8	0.7	23	1	US-10-310-914A-182885	Sequence 182885,
446	18.8	0.7	22	1	US-10-310-914A-1036929	Sequence 1036929,	519	18.8	0.7	23	1	US-10-310-914A-182886	Sequence 182886,
447	18.8	0.7	22	1	US-10-310-914A-1036930	Sequence 1036930,	520	18.8	0.7	23	1	US-10-310-914A-182889	Sequence 182889,
448	18.8	0.7	22	1	US-10-310-914A-1295954	Sequence 1295954,	521	18.8	0.7	23	1	US-10-310-914A-182893	Sequence 182893,
449	18.8	0.7	22	1	US-10-310-914A-138524	Sequence 138524,	522	18.8	0.7	23	1	US-10-310-914A-182894	Sequence 182894,
450	18.8	0.7	22	1	US-10-310-914A-138525	Sequence 138525,	c 523	18.8	0.7	23	1	US-10-310-914A-186963	Sequence 186963,
451	18.8	0.7	22	1	US-10-310-914A-138526	Sequence 138526,	c 524	18.8	0.7	23	1	US-10-310-914A-186968	Sequence 186968,
452	18.8	0.7	22	1	US-10-310-914A-138544	Sequence 138544,	c 525	18.8	0.7	23	1	US-10-310-914A-189777	Sequence 189777,
453	18.8	0.7	22	1	US-10-310-914A-139798	Sequence 139798,	526	18.8	0.7	23	1	US-10-310-914A-219244	Sequence 219244,
454	18.8	0.7	22	1	US-10-310-914A-163370	Sequence 163370,	527	18.8	0.7	23	1	US-10-310-914A-221970	Sequence 221970,
455	18.8	0.7	22	1	US-10-310-914A-163374	Sequence 163374,	c 528	18.8	0.7	23	1	US-10-310-914A-223363	Sequence 223363,
456	18.8	0.7	22	1	US-10-310-914A-168063	Sequence 168063,	529	18.8	0.7	23	1	US-10-310-914A-226050	Sequence 226050,
457	18.8	0.7	22	1	US-10-310-914A-200768	Sequence 200768,	530	18.8	0.7	23	1	US-10-310-914A-226051	Sequence 226051,
458	18.8	0.7	22	1	US-10-310-914A-202521	Sequence 202521,	531	18.8	0.7	23	1	US-10-310-914A-226060	Sequence 226060,
459	18.8	0.7	22	1	US-10-310-914A-219183	Sequence 219183,	532	18.8	0.7	23	1	US-10-310-914A-226061	Sequence 226061,
460	18.8	0.7	22	1	US-10-310-914A-229038	Sequence 229038,	533	18.8	0.7	23	1	US-10-310-914A-226062	Sequence 226062,
461	18.8	0.7	22	1	US-10-310-914A-229050	Sequence 229050,	534	18.8	0.7	23	1	US-10-310-914A-226064	Sequence 226064,
462	18.8	0.7	22	1	US-10-310-914A-238178	Sequence 238178,	535	18.8	0.7	23	1	US-10-310-914A-228870	Sequence 228870,
463	18.8	0.7	22	1	US-10-310-914A-241949	Sequence 241949,	536	18.8	0.7	23	1	US-10-310-914A-238204	Sequence 238204,
464	18.8	0.7	22	1	US-10-310-914A-285281	Sequence 285281,	c 537	18.8	0.7	23	1	US-10-310-914A-255935	Sequence 255935,
465	18.8	0.7	22	1	US-10-310-914A-301499	Sequence 301499,	c 538	18.8	0.7	23	1	US-10-310-914A-261072	Sequence 261072,
466	18.8	0.7	22	1	US-10-310-914A-341339	Sequence 341339,	539	18.8	0.7	23	1	US-10-310-914A-261088	Sequence 261088,
467	18.8	0.7	22	1	US-10-310-914A-341340	Sequence 341340,	540	18.8	0.7	23	1	US-10-310-914A-299141	Sequence 299141,
468	18.8	0.7	22	1	US-10-310-914A-353980	Sequence 353980,	541	18.8	0.7	23	1	US-10-310-914A-299143	Sequence 299143,
469	18.8	0.7	22	1	US-10-310-914A-353981	Sequence 353981,	542	18.8	0.7	23	1	US-10-310-914A-301507	Sequence 301507,
470	18.8	0.7	22	1	US-10-310-914A-353982	Sequence 353982,	c 543	18.8	0.7	23	1	US-10-310-914A-305956	Sequence 305956,
471	18.8	0.7	22	1	US-10-310-914A-370349	Sequence 370349,	c 544	18.8	0.7	23	1		

545	18.8	0.7	23	1	US-10-310-914A-346658	Sequence 346658,	618	18.4	0.6	20	1	US-10-310-914A-743427	Sequence 743427,
546	18.8	0.7	23	1	US-10-310-914A-346659	Sequence 346659,	619	18.4	0.6	21	1	US-10-310-914A-106726	Sequence 106726,
547	18.8	0.7	23	1	US-10-310-914A-346663	Sequence 346663,	620	18.4	0.6	21	1	US-10-310-914A-1295970	Sequence 1295970,
548	18.8	0.7	23	1	US-10-310-914A-346664	Sequence 346664,	621	18.4	0.6	21	1	US-10-310-914A-186967	Sequence 186967,
549	18.8	0.7	23	1	US-10-310-914A-368093	Sequence 368093,	622	18.4	0.6	21	1	US-10-310-914A-189786	Sequence 189786,
550	18.8	0.7	23	1	US-10-310-914A-416103	Sequence 416103,	623	18.4	0.6	21	1	US-10-310-914A-193957	Sequence 193957,
551	18.8	0.7	23	1	US-10-310-914A-416111	Sequence 416111,	624	18.4	0.6	21	1	US-10-310-914A-202532	Sequence 202532,
552	18.8	0.7	23	1	US-10-310-914A-42411	Sequence 42411, A	625	18.4	0.6	21	1	US-10-310-914A-238253	Sequence 238253,
553	18.8	0.7	23	1	US-10-310-914A-42412	Sequence 42412, A	626	18.4	0.6	21	1	US-10-310-914A-540550	Sequence 540550,
554	18.8	0.7	23	1	US-10-310-914A-42413	Sequence 42413, A	627	18.4	0.6	21	1	US-10-310-914A-548452	Sequence 548452,
555	18.8	0.7	23	1	US-10-310-914A-42414	Sequence 42414, A	628	18.4	0.6	21	1	US-10-310-914A-73013	Sequence 73013, A
556	18.8	0.7	23	1	US-10-310-914A-42415	Sequence 42415, A	629	18.4	0.6	21	1	US-10-310-914A-831668	Sequence 831668,
557	18.8	0.7	23	1	US-10-310-914A-42416	Sequence 42416, A	630	18.4	0.6	21	1	US-10-310-914A-964813	Sequence 964813,
558	18.8	0.7	23	1	US-10-310-914A-42427	Sequence 42427, A	631	18.4	0.6	22	1	US-10-310-914A-1013266	Sequence 1013266,
559	18.8	0.7	23	1	US-10-310-914A-42428	Sequence 42428, A	632	18.4	0.6	22	1	US-10-310-914A-1170931	Sequence 1170931,
560	18.8	0.7	23	1	US-10-310-914A-42429	Sequence 42429, A	633	18.4	0.6	22	1	US-10-310-914A-1295971	Sequence 1295971,
561	18.8	0.7	23	1	US-10-310-914A-42430	Sequence 42430, A	634	18.4	0.6	22	1	US-10-310-914A-148826	Sequence 148826,
562	18.8	0.7	23	1	US-10-310-914A-42431	Sequence 42431, A	635	18.4	0.6	22	1	US-10-310-914A-188902	Sequence 188902,
563	18.8	0.7	23	1	US-10-310-914A-42432	Sequence 42432, A	636	18.4	0.6	22	1	US-10-310-914A-202520	Sequence 202520,
564	18.8	0.7	23	1	US-10-310-914A-42433	Sequence 42433, A	637	18.4	0.6	22	1	US-10-310-914A-545957	Sequence 545957,
565	18.8	0.7	23	1	US-10-310-914A-430449	Sequence 430449, A	638	18.4	0.6	22	1	US-10-310-914A-692483	Sequence 692483,
566	18.8	0.7	23	1	US-10-310-914A-430461	Sequence 430461, A	639	18.4	0.6	22	1	US-10-310-914A-870701	Sequence 870701,
567	18.8	0.7	23	1	US-10-310-914A-432629	Sequence 432629, A	640	18.4	0.6	22	1	US-10-310-914A-912824	Sequence 912824,
568	18.8	0.7	23	1	US-10-310-914A-463734	Sequence 463734, A	641	18.4	0.6	22	1	US-10-310-914A-929352	Sequence 929352,
569	18.8	0.7	23	1	US-10-310-914A-463744	Sequence 463744, A	642	18.4	0.6	23	1	US-10-310-914A-1040108	Sequence 1040108,
570	18.8	0.7	23	1	US-10-310-914A-495451	Sequence 495451, A	643	18.4	0.6	23	1	US-10-310-914A-118043	Sequence 118043,
571	18.8	0.7	23	1	US-10-310-914A-51709	Sequence 51709, A	644	18.4	0.6	23	1	US-10-310-914A-1295957	Sequence 1295957,
572	18.8	0.7	23	1	US-10-310-914A-536236	Sequence 536236, A	645	18.4	0.6	23	1	US-10-310-914A-1387235	Sequence 1387235,
573	18.8	0.7	23	1	US-10-310-914A-536250	Sequence 536250, A	646	18.4	0.6	23	1	US-10-310-914A-186942	Sequence 186942,
574	18.8	0.7	23	1	US-10-310-914A-545430	Sequence 545430, A	647	18.4	0.6	23	1	US-10-310-914A-461593	Sequence 461593,
575	18.8	0.7	23	1	US-10-310-914A-545431	Sequence 545431, A	648	18.4	0.6	23	1	US-10-310-914A-585035	Sequence 585035,
576	18.8	0.7	23	1	US-10-310-914A-545437	Sequence 545437, A	649	18.4	0.6	23	1	US-10-310-914A-719007	Sequence 719007,
577	18.8	0.7	23	1	US-10-310-914A-545438	Sequence 545438, A	650	18.4	0.6	18	1	US-10-310-914A-118048	Sequence 118048,
578	18.8	0.7	23	1	US-10-310-914A-576634	Sequence 576634, A	651	18.4	0.6	18	1	US-10-310-914A-221594	Sequence 221594,
579	18.8	0.7	23	1	US-10-310-914A-629561	Sequence 629561, A	652	18.4	0.6	18	1	US-10-310-914A-353585	Sequence 353585,
580	18.8	0.7	23	1	US-10-310-914A-64744	Sequence 64744, A	653	18.4	0.6	18	1	US-10-310-914A-706770	Sequence 706770,
581	18.8	0.7	23	1	US-10-310-914A-718992	Sequence 718992, A	654	18.4	0.6	18	1	US-10-310-914A-79741	Sequence 79741, A
582	18.8	0.7	23	1	US-10-310-914A-757113	Sequence 757113, A	655	18.4	0.6	18	1	US-10-310-914A-79742	Sequence 79742, A
583	18.8	0.7	23	1	US-10-310-914A-757114	Sequence 757114, A	656	18.4	0.6	19	1	US-10-310-914A-79743	Sequence 79743, A
584	18.8	0.7	23	1	US-10-310-914A-78081	Sequence 78081, A	657	18.4	0.6	19	1	US-10-310-914A-79744	Sequence 79744, A
585	18.8	0.7	23	1	US-10-310-914A-78083	Sequence 78083, A	658	18.4	0.6	19	1	US-10-310-914A-88913	Sequence 88913, A
586	18.8	0.7	23	1	US-10-310-914A-838147	Sequence 838147, A	659	18.4	0.6	19	1	US-11-083-784-266282	Sequence 266282,
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588	18.8	0.7	23	1	US-10-310-914A-838215	Sequence 838215, A	661	18.4	0.6	19	1	US-11-083-784-266354	Sequence 266354,
589	18.8	0.7	23	1	US-10-310-914A-875272	Sequence 875272, A	662	18.4	0.6	19	1	US-11-083-784-377969	Sequence 377969,
590	18.8	0.7	23	1	US-10-310-914A-88240	Sequence 88240, A	663	18.4	0.6	19	1	US-11-101-244-266282	Sequence 266282,
591	18.8	0.7	23	1	US-10-310-914A-900526	Sequence 900526, A	664	18.4	0.6	19	1	US-11-101-244-266347	Sequence 266347,
592	18.8	0.7	23	1	US-10-310-914A-900539	Sequence 900539, A	665	18.4	0.6	19	1	US-11-101-244-266354	Sequence 266354,
593	18.8	0.7	23	1	US-10-310-914A-969322	Sequence 969322, A	666	18.4	0.6	19	1	US-11-101-244-377969	Sequence 377969,
594	18.8	0.7	23	1	US-10-310-914A-969332	Sequence 969332, A	667	18.4	0.6	20	1	US-10-310-914A-231732	Sequence 231732,
595	18.8	0.7	23	1	US-10-310-914A-983802	Sequence 983802, A	668	18.4	0.6	21	1	US-10-310-914A-625761	Sequence 625761,
596	18.8	0.7	23	1	US-10-310-914A-100328	Sequence 100328, A	669	18.4	0.6	21	1	US-10-310-914A-1012093	Sequence 1012093,
597	18.8	0.7	23	1	US-10-310-914A-1007325	Sequence 1007325, A	670	18.4	0.6	21	1	US-10-310-914A-1224011	Sequence 1224011,
598	18.4	0.6	20	1	US-10-310-914A-1016243	Sequence 1016243, A	671	17.8	0.6	21	1	US-10-310-914A-1263814	Sequence 1263814,
599	18.4	0.6	20	1	US-10-310-914A-1016244	Sequence 1016244, A	672	17.8	0.6	21	1	US-10-310-914A-1263815	Sequence 1263815,
600	18.4	0.6	20	1	US-10-310-914A-1162824	Sequence 1162824, A	673	17.8	0.6	21	1	US-10-310-914A-1263816	Sequence 1263816,
601	18.4	0.6	20	1	US-10-310-914A-1326885	Sequence 1326885, A	674	17.8	0.6	21	1	US-10-310-914A-1263815	Sequence 1263815,
602	18.4	0.6	20	1	US-10-310-914A-202533	Sequence 202533, A	675	17.8	0.6	21	1	US-10-310-914A-1286245	Sequence 1286245,
603	18.4	0.6	20	1	US-10-310-914A-221988	Sequence 221988, A	676	17.8	0.6	21	1	US-10-310-914A-1358205	Sequence 1358205,
604	18.4	0.6	20	1	US-10-310-914A-222269	Sequence 222269, A	677	17.8	0.6	21	1	US-10-310-914A-138529	Sequence 138529,
605	18.4	0.6	20	1	US-10-310-914A-222269	Sequence 222269, A	678	17.8	0.6	21	1	US-10-310-914A-172527	Sequence 172527,
606	18.4	0.6	20	1	US-10-310-914A-222269	Sequence 222269, A	679	17.8	0.6	21	1	US-10-310-914A-202568	Sequence 202568,
607	18.4	0.6	20	1	US-10-310-914A-222269	Sequence 222269, A	680	17.8	0.6	21	1	US-10-310-914A-211265	Sequence 211265,
608	18.4	0.6	20	1	US-10-310-914A-222269	Sequence 222269, A	681	17.8	0.6	21	1	US-10-310-914A-221969	Sequence 221969,
609	18.4	0.6	20	1	US-10-310-914A-222269	Sequence 222269, A	682	17.8	0.6	21	1	US-10-310-914A-231674	Sequence 231674,
610	18.4	0.6	20	1	US-10-310-914A-231748	Sequence 231748, A	683	17.8	0.6	21	1	US-10-310-914A-238170	Sequence 238170,
611	18.4	0.6	20	1	US-10-310-914A-257858	Sequence 257858, A	684	17.8	0.6	21	1	US-10-310-914A-257830	Sequence 257830,
612	18.4	0.6	20	1	US-10-310-914A-416411	Sequence 416411, A	685	17.8	0.6	21	1	US-10-310-914A-290078	Sequence 290078,
613	18.4	0.6	20	1	US-10-310-914A-426632	Sequence 426632, A	686	17.8	0.6	21	1	US-10-310-914A-341338	Sequence 341338,
614	18.4	0.6	20	1	US-10-310-914A-545962	Sequence 545962, A	687	17.8	0.6	21	1	US-10-310-914A-344555	Sequence 344555,
615	18.4	0.6	20	1	US-10-310-914A-548892	Sequence 548892, A	688	17.8	0.6	21	1	US-10-310-914A-357042	Sequence 357042,
616	18.4	0.6	20	1	US-10-310-914A-719052	Sequence 719052, A	689	17.8	0.6	21	1	US-10-310-914A-381485	Sequence 381485,
617	18.4	0.6	20	1	US-10-310-914A-73030	Sequence 73030, A	690	17.8	0.6	21	1	US-10-310-914A-416393	Sequence 416393,

c 691	17.8	0.6	21	1	US-10-310-914A-416394	Sequence 416394,	c 764	17.8	0.6	22	1	US-10-310-914A-62883	Sequence 62883, A
c 692	17.8	0.6	21	1	US-10-310-914A-432636	Sequence 432636,	765	17.8	0.6	22	1	US-10-310-914A-629549	Sequence 629549,
c 693	17.8	0.6	21	1	US-10-310-914A-433753	Sequence 433753,	c 766	17.8	0.6	22	1	US-10-310-914A-632079	Sequence 632079,
c 694	17.8	0.6	21	1	US-10-310-914A-44941	Sequence 44941, A	c 767	17.8	0.6	22	1	US-10-310-914A-691361	Sequence 691361,
c 695	17.8	0.6	21	1	US-10-310-914A-495447	Sequence 495447,	768	17.8	0.6	22	1	US-10-310-914A-704782	Sequence 704782,
c 696	17.8	0.6	21	1	US-10-310-914A-495470	Sequence 495470,	c 769	17.8	0.6	22	1	US-10-310-914A-715444	Sequence 715444,
c 697	17.8	0.6	21	1	US-10-310-914A-505774	Sequence 505774,	c 770	17.8	0.6	22	1	US-10-310-914A-726805	Sequence 726805,
c 698	17.8	0.6	21	1	US-10-310-914A-505775	Sequence 505775,	c 771	17.8	0.6	22	1	US-10-310-914A-78335	Sequence 78335, A
c 699	17.8	0.6	21	1	US-10-310-914A-507177	Sequence 507177,	772	17.8	0.6	22	1	US-10-310-914A-788827	Sequence 788827,
c 700	17.8	0.6	21	1	US-10-310-914A-526205	Sequence 526205,	c 773	17.8	0.6	22	1	US-10-310-914A-792979	Sequence 792979,
c 701	17.8	0.6	21	1	US-10-310-914A-540541	Sequence 540541,	c 774	17.8	0.6	22	1	US-10-310-914A-793012	Sequence 793012,
c 702	17.8	0.6	21	1	US-10-310-914A-556852	Sequence 556852,	775	17.8	0.6	22	1	US-10-310-914A-821861	Sequence 821861,
c 703	17.8	0.6	21	1	US-10-310-914A-558033	Sequence 585033,	c 776	17.8	0.6	22	1	US-10-310-914A-832273	Sequence 832273,
c 704	17.8	0.6	21	1	US-10-310-914A-587505	Sequence 587505,	c 777	17.8	0.6	22	1	US-10-310-914A-839959	Sequence 839959,
c 705	17.8	0.6	21	1	US-10-310-914A-587575	Sequence 587575,	c 778	17.8	0.6	22	1	US-10-310-914A-839963	Sequence 839963,
c 706	17.8	0.6	21	1	US-10-310-914A-629654	Sequence 629654,	c 779	17.8	0.6	22	1	US-10-310-914A-864306	Sequence 864306,
c 707	17.8	0.6	21	1	US-10-310-914A-677290	Sequence 677290,	c 780	17.8	0.6	22	1	US-10-310-914A-881891	Sequence 881891,
c 708	17.8	0.6	21	1	US-10-310-914A-691352	Sequence 691352,	781	17.8	0.6	22	1	US-10-310-914A-88223	Sequence 88223, A
c 709	17.8	0.6	21	1	US-10-310-914A-712339	Sequence 712339,	782	17.8	0.6	22	1	US-10-310-914A-900527	Sequence 900527,
c 710	17.8	0.6	21	1	US-10-310-914A-715435	Sequence 715435,	c 783	17.8	0.6	22	1	US-10-310-914A-918189	Sequence 918189,
c 711	17.8	0.6	21	1	US-10-310-914A-715436	Sequence 715436,	c 784	17.8	0.6	22	1	US-10-310-914A-983807	Sequence 983807,
c 712	17.8	0.6	21	1	US-10-310-914A-730803	Sequence 730803,	c 785	17.4	0.6	19	1	US-10-310-914A-1045864	Sequence 1045864,
c 713	17.8	0.6	21	1	US-10-310-914A-785691	Sequence 785691,	786	17.4	0.6	19	1	US-10-310-914A-1083998	Sequence 1083998,
c 714	17.8	0.6	21	1	US-10-310-914A-787627	Sequence 787627,	c 787	17.4	0.6	19	1	US-10-310-914A-120323	Sequence 120323,
c 715	17.8	0.6	21	1	US-10-310-914A-790492	Sequence 790492,	c 788	17.4	0.6	19	1	US-10-310-914A-1219796	Sequence 1219796,
c 716	17.8	0.6	21	1	US-10-310-914A-819225	Sequence 819225,	789	17.4	0.6	19	1	US-10-310-914A-1263310	Sequence 1263310,
c 717	17.8	0.6	21	1	US-10-310-914A-839759	Sequence 839759,	790	17.4	0.6	19	1	US-10-310-914A-1286259	Sequence 1286259,
c 718	17.8	0.6	21	1	US-10-310-914A-839962	Sequence 839962,	791	17.4	0.6	19	1	US-10-310-914A-1287810	Sequence 1287810,
c 719	17.8	0.6	21	1	US-10-310-914A-839962	Sequence 839962,	c 792	17.4	0.6	19	1	US-10-310-914A-1295963	Sequence 1295963,
c 720	17.8	0.6	21	1	US-10-310-914A-889436	Sequence 889436,	c 793	17.4	0.6	19	1	US-10-310-914A-1376433	Sequence 1376433,
c 721	17.8	0.6	21	1	US-10-310-914A-89570	Sequence 89570, A	c 794	17.4	0.6	19	1	US-10-310-914A-1376434	Sequence 1376434,
c 722	17.8	0.6	21	1	US-10-310-914A-906952	Sequence 906952,	795	17.4	0.6	19	1	US-10-310-914A-188857	Sequence 188857,
c 723	17.8	0.6	22	1	US-10-310-914A-1001528	Sequence 1001528,	c 796	17.4	0.6	19	1	US-10-310-914A-202519	Sequence 202519,
c 724	17.8	0.6	22	1	US-10-310-914A-1002247	Sequence 1002247,	797	17.4	0.6	19	1	US-10-310-914A-215731	Sequence 215731,
c 725	17.8	0.6	22	1	US-10-310-914A-1036937	Sequence 1036937,	798	17.4	0.6	19	1	US-10-310-914A-218510	Sequence 218510,
c 726	17.8	0.6	22	1	US-10-310-914A-104980	Sequence 104980,	c 799	17.4	0.6	19	1	US-10-310-914A-221990	Sequence 221990,
c 727	17.8	0.6	22	1	US-10-310-914A-1065873	Sequence 1065873,	c 800	17.4	0.6	19	1	US-10-310-914A-221995	Sequence 221995,
c 728	17.8	0.6	22	1	US-10-310-914A-1095919	Sequence 1095919,	c 801	17.4	0.6	19	1	US-10-310-914A-221997	Sequence 221997,
c 729	17.8	0.6	22	1	US-10-310-914A-1095920	Sequence 1095920,	c 802	17.4	0.6	19	1	US-10-310-914A-238188	Sequence 238188,
c 730	17.8	0.6	22	1	US-10-310-914A-1282881	Sequence 1282881,	803	17.4	0.6	19	1	US-10-310-914A-339990	Sequence 339990,
c 731	17.8	0.6	22	1	US-10-310-914A-1329706	Sequence 1329706,	c 804	17.4	0.6	19	1	US-10-310-914A-363981	Sequence 363981,
c 732	17.8	0.6	22	1	US-10-310-914A-1356302	Sequence 1356302,	c 805	17.4	0.6	19	1	US-10-310-914A-370633	Sequence 370633,
c 733	17.8	0.6	22	1	US-10-310-914A-138546	Sequence 138546,	806	17.4	0.6	19	1	US-10-310-914A-399550	Sequence 399550,
c 734	17.8	0.6	22	1	US-10-310-914A-156014	Sequence 156014,	807	17.4	0.6	19	1	US-10-310-914A-430594	Sequence 430594,
c 735	17.8	0.6	22	1	US-10-310-914A-158918	Sequence 158918,	808	17.4	0.6	19	1	US-10-310-914A-430594	Sequence 430594,
c 736	17.8	0.6	22	1	US-10-310-914A-167734	Sequence 167734,	809	17.4	0.6	19	1	US-10-310-914A-485075	Sequence 485075,
c 737	17.8	0.6	22	1	US-10-310-914A-169351	Sequence 169351,	c 810	17.4	0.6	19	1	US-10-310-914A-632591	Sequence 632591,
c 738	17.8	0.6	22	1	US-10-310-914A-170669	Sequence 170669,	c 811	17.4	0.6	19	1	US-10-310-914A-649502	Sequence 649502,
c 739	17.8	0.6	22	1	US-10-310-914A-172447	Sequence 172447,	c 812	17.4	0.6	19	1	US-10-310-914A-671184	Sequence 671184, A
c 740	17.8	0.6	22	1	US-10-310-914A-182474	Sequence 182474,	813	17.4	0.6	19	1	US-10-310-914A-711677	Sequence 711677,
c 741	17.8	0.6	22	1	US-10-310-914A-202560	Sequence 202560,	814	17.4	0.6	19	1	US-10-310-914A-73002	Sequence 73002, A
c 742	17.8	0.6	22	1	US-10-310-914A-223603	Sequence 223603,	815	17.4	0.6	19	1	US-10-310-914A-73029	Sequence 73029, A
c 743	17.8	0.6	22	1	US-10-310-914A-226973	Sequence 226973,	816	17.4	0.6	19	1	US-10-310-914A-756967	Sequence 756967,
c 744	17.8	0.6	22	1	US-10-310-914A-241978	Sequence 241978,	817	17.4	0.6	19	1	US-10-310-914A-756968	Sequence 756968,
c 745	17.8	0.6	22	1	US-10-310-914A-245295	Sequence 245295,	818	17.4	0.6	19	1	US-10-310-914A-756969	Sequence 756969,
c 746	17.8	0.6	22	1	US-10-310-914A-262260	Sequence 262260,	819	17.4	0.6	19	1	US-10-310-914A-756970	Sequence 756970,
c 747	17.8	0.6	22	1	US-10-310-914A-275943	Sequence 275943,	820	17.4	0.6	19	1	US-10-310-914A-756971	Sequence 756971,
c 748	17.8	0.6	22	1	US-10-310-914A-287998	Sequence 287998,	c 821	17.4	0.6	19	1	US-10-310-914A-756972	Sequence 756972,
c 749	17.8	0.6	22	1	US-10-310-914A-339030	Sequence 339030,	c 822	17.4	0.6	19	1	US-10-310-914A-785682	Sequence 785682,
c 750	17.8	0.6	22	1	US-10-310-914A-339261	Sequence 339261,	c 823	17.4	0.6	19	1	US-10-310-914A-785683	Sequence 785683,
c 751	17.8	0.6	22	1	US-10-310-914A-346636	Sequence 346636,	824	17.4	0.6	19	1	US-10-310-914A-798846	Sequence 798846,
c 752	17.8	0.6	22	1	US-10-310-914A-367825	Sequence 367825,	c 825	17.4	0.6	19	1	US-10-310-914A-839850	Sequence 839850,
c 753	17.8	0.6	22	1	US-10-310-914A-374247	Sequence 374247,	826	17.4	0.6	19	1	US-10-310-914A-858360	Sequence 858360,
c 754	17.8	0.6	22	1	US-10-310-914A-385484	Sequence 385484,	827	17.4	0.6	19	1	US-10-310-914A-89789	Sequence 89789, A
c 755	17.8	0.6	22	1	US-10-310-914A-416104	Sequence 416104,	828	17.4	0.6	19	1	US-10-310-914A-964819	Sequence 964819,
c 756	17.8	0.6	22	1	US-10-310-914A-432652	Sequence 432652,	829	17.4	0.6	19	1	US-11-083-784-1159726	Sequence 1159726,
c 757	17.8	0.6	22	1	US-10-310-914A-432655	Sequence 432655,	c 830	17.4	0.6	19	1	US-11-083-784-1254149	Sequence 1254149,
c 758	17.8	0.6	22	1	US-10-310-914A-459562	Sequence 459562,	831	17.4	0.6	19	1	US-11-083-784-1254149	Sequence 1254149,
c 759	17.8	0.6	22	1	US-10-310-914A-483979	Sequence 483979,	832	17.4	0.6	19	1	US-11-083-784-264920	Sequence 264920,
c 760	17.8	0.6	22	1	US-10-310-914A-484901	Sequence 484901, A	833	17.4	0.6	19	1	US-11-083-784-265765	Sequence 265765,
c 761	17.8	0.6	22	1	US-10-310-914A-48599	Sequence 48599,	834	17.4	0.6	19	1	US-11-083-784-265770	Sequence 265770,
c 762	17.8	0.6	22	1	US-10-310-914A-505776	Sequence 505776,	835	17.4	0.6	19	1	US-11-083-784-265852	Sequence 265852,
c 763	17.8	0.6	22	1	US-10-310-914A-564552	Sequence 564552,	836	17.4	0.6	19	1	US-11-083-784-265897	Sequence 265897,
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838	17.4	0.6	19	1	US-11-083-784-255958	Sequence 265958,	911	17.4	0.6	20	1	US-10-310-914A-170668	Sequence 170668,
839	17.4	0.6	19	1	US-11-083-784-266050	Sequence 266050,	912	17.4	0.6	20	1	US-10-310-914A-202986	Sequence 202986,
840	17.4	0.6	19	1	US-11-083-784-266096	Sequence 266096,	913	17.4	0.6	20	1	US-10-310-914A-228946	Sequence 228946,
841	17.4	0.6	19	1	US-11-083-784-266166	Sequence 266166,	c 914	17.4	0.6	20	1	US-10-310-914A-301506	Sequence 301506,
842	17.4	0.6	19	1	US-11-083-784-266172	Sequence 266172,	c 915	17.4	0.6	20	1	US-10-310-914A-311586	Sequence 311586,
843	17.4	0.6	19	1	US-11-083-784-266203	Sequence 266203,	c 916	17.4	0.6	20	1	US-10-310-914A-381474	Sequence 381474,
844	17.4	0.6	19	1	US-11-083-784-266225	Sequence 266225,	c 917	17.4	0.6	20	1	US-10-310-914A-381551	Sequence 381551,
845	17.4	0.6	19	1	US-11-083-784-266227	Sequence 266227,	c 918	17.4	0.6	20	1	US-10-310-914A-390900	Sequence 390900,
846	17.4	0.6	19	1	US-11-083-784-266230	Sequence 266230,	919	17.4	0.6	20	1	US-10-310-914A-437045	Sequence 437045,
847	17.4	0.6	19	1	US-11-083-784-266244	Sequence 266244,	920	17.4	0.6	20	1	US-10-310-914A-471418	Sequence 471418,
848	17.4	0.6	19	1	US-11-083-784-266248	Sequence 266248,	921	17.4	0.6	20	1	US-10-310-914A-486074	Sequence 486074,
849	17.4	0.6	19	1	US-11-083-784-266255	Sequence 266255,	922	17.4	0.6	20	1	US-10-310-914A-504153	Sequence 504153,
850	17.4	0.6	19	1	US-11-083-784-266267	Sequence 266267,	923	17.4	0.6	20	1	US-10-310-914A-538024	Sequence 538024,
851	17.4	0.6	19	1	US-11-083-784-266268	Sequence 266268,	924	17.4	0.6	20	1	US-10-310-914A-548423	Sequence 548423,
852	17.4	0.6	19	1	US-11-083-784-266270	Sequence 266270,	925	17.4	0.6	20	1	US-10-310-914A-548505	Sequence 548505,
853	17.4	0.6	19	1	US-11-083-784-266281	Sequence 266281,	c 926	17.4	0.6	20	1	US-10-310-914A-649505	Sequence 649505,
854	17.4	0.6	19	1	US-11-083-784-266284	Sequence 266284,	c 927	17.4	0.6	20	1	US-10-310-914A-711678	Sequence 711678,
855	17.4	0.6	19	1	US-11-083-784-266310	Sequence 266310,	c 928	17.4	0.6	20	1	US-10-310-914A-751775	Sequence 751775,
856	17.4	0.6	19	1	US-11-083-784-266312	Sequence 266312,	c 929	17.4	0.6	20	1	US-10-310-914A-77009	Sequence 77009, A
857	17.4	0.6	19	1	US-11-083-784-266316	Sequence 266316,	c 930	17.4	0.6	20	1	US-10-310-914A-804906	Sequence 804906,
858	17.4	0.6	19	1	US-11-083-784-266326	Sequence 266326,	c 931	17.4	0.6	20	1	US-10-310-914A-88900	Sequence 88900, A
859	17.4	0.6	19	1	US-11-083-784-266328	Sequence 266328,	c 932	17.4	0.6	20	1	US-10-310-914A-939559	Sequence 939559,
860	17.4	0.6	19	1	US-11-083-784-266332	Sequence 266332,	c 933	17.4	0.6	21	1	US-10-310-914A-1002772	Sequence 1002772,
861	17.4	0.6	19	1	US-11-083-784-266338	Sequence 266338,	934	17.4	0.6	21	1	US-10-310-914A-104979	Sequence 104979,
862	17.4	0.6	19	1	US-11-083-784-266344	Sequence 266344,	935	17.4	0.6	21	1	US-10-310-914A-1089560	Sequence 1089560,
863	17.4	0.6	19	1	US-11-083-784-266353	Sequence 266353,	936	17.4	0.6	21	1	US-10-310-914A-118756	Sequence 118756,
864	17.4	0.6	19	1	US-11-083-784-266361	Sequence 266361,	c 937	17.4	0.6	21	1	US-10-310-914A-122871	Sequence 122871,
865	17.4	0.6	19	1	US-11-083-784-266362	Sequence 266362,	c 938	17.4	0.6	21	1	US-10-310-914A-122886	Sequence 122886,
866	17.4	0.6	19	1	US-11-083-784-266363	Sequence 266363,	c 939	17.4	0.6	21	1	US-10-310-914A-1263730	Sequence 1263730,
867	17.4	0.6	19	1	US-11-101-244-1159726	Sequence 1159726,	c 940	17.4	0.6	21	1	US-10-310-914A-1319148	Sequence 1319148,
868	17.4	0.6	19	1	US-11-101-244-1218890	Sequence 1218890,	c 941	17.4	0.6	21	1	US-10-310-914A-1330678	Sequence 1330678,
869	17.4	0.6	19	1	US-11-101-244-1254149	Sequence 1254149,	c 942	17.4	0.6	21	1	US-10-310-914A-169363	Sequence 169363,
870	17.4	0.6	19	1	US-11-101-244-1264920	Sequence 264920,	c 943	17.4	0.6	21	1	US-10-310-914A-1865941	Sequence 1865941,
871	17.4	0.6	19	1	US-11-101-244-265765	Sequence 265765,	c 944	17.4	0.6	21	1	US-10-310-914A-318785	Sequence 318785,
872	17.4	0.6	19	1	US-11-101-244-265770	Sequence 265770,	c 945	17.4	0.6	21	1	US-10-310-914A-346557	Sequence 346557,
873	17.4	0.6	19	1	US-11-101-244-265811	Sequence 265811,	946	17.4	0.6	21	1	US-10-310-914A-351160	Sequence 351160,
874	17.4	0.6	19	1	US-11-101-244-265852	Sequence 265852,	c 947	17.4	0.6	21	1	US-10-310-914A-351186	Sequence 351186,
875	17.4	0.6	19	1	US-11-101-244-265897	Sequence 265897,	c 948	17.4	0.6	21	1	US-10-310-914A-437029	Sequence 437029,
876	17.4	0.6	19	1	US-11-101-244-265937	Sequence 265937,	c 949	17.4	0.6	21	1	US-10-310-914A-483985	Sequence 483985,
877	17.4	0.6	19	1	US-11-101-244-265958	Sequence 265958,	c 950	17.4	0.6	21	1	US-10-310-914A-486063	Sequence 486063,
878	17.4	0.6	19	1	US-11-101-244-266050	Sequence 266050,	c 951	17.4	0.6	21	1	US-10-310-914A-486063	Sequence 486063,
879	17.4	0.6	19	1	US-11-101-244-266096	Sequence 266096,	c 952	17.4	0.6	21	1	US-10-310-914A-719014	Sequence 719014,
880	17.4	0.6	19	1	US-11-101-244-266166	Sequence 266166,	c 953	17.4	0.6	21	1	US-10-310-914A-751776	Sequence 751776,
881	17.4	0.6	19	1	US-11-101-244-266172	Sequence 266172,	c 954	17.4	0.6	21	1	US-10-310-914A-763008	Sequence 763008,
882	17.4	0.6	19	1	US-11-101-244-266203	Sequence 266203,	c 955	17.4	0.6	21	1	US-10-310-914A-789187	Sequence 789187,
883	17.4	0.6	19	1	US-11-101-244-266225	Sequence 266225,	c 956	17.4	0.6	21	1	US-10-310-914A-889438	Sequence 889438,
884	17.4	0.6	19	1	US-11-101-244-266227	Sequence 266227,	c 957	17.4	0.6	21	1	US-10-310-914A-969344	Sequence 969344,
885	17.4	0.6	19	1	US-11-101-244-266230	Sequence 266230,	958	17.4	0.6	21	1	US-10-770-726-9106	Sequence 9106, Ap
886	17.4	0.6	19	1	US-11-101-244-266238	Sequence 266238,	959	17.4	0.6	21	1	US-10-770-726-9127	Sequence 9127, Ap
887	17.4	0.6	19	1	US-11-101-244-266244	Sequence 266244,	c 960	17.4	0.6	18	1	US-10-310-914A-1326881	Sequence 1326881,
888	17.4	0.6	19	1	US-11-101-244-266248	Sequence 266248,	c 961	17.4	0.6	18	1	US-10-310-914A-186965	Sequence 186965,
889	17.4	0.6	19	1	US-11-101-244-266255	Sequence 266255,	c 962	17.4	0.6	18	1	US-10-310-914A-231731	Sequence 231731,
890	17.4	0.6	19	1	US-11-101-244-266267	Sequence 266267,	c 963	17.4	0.6	18	1	US-10-310-914A-339221	Sequence 339221,
891	17.4	0.6	19	1	US-11-101-244-266270	Sequence 266270,	964	17.4	0.6	18	1	US-10-310-914A-339950	Sequence 339950,
892	17.4	0.6	19	1	US-11-101-244-266281	Sequence 266281,	965	17.4	0.6	18	1	US-10-310-914A-445699	Sequence 445699,
893	17.4	0.6	19	1	US-11-101-244-266284	Sequence 266284,	c 966	17.4	0.6	18	1	US-10-310-914A-649080	Sequence 649080,
894	17.4	0.6	19	1	US-11-101-244-266310	Sequence 266310,	c 967	17.4	0.6	18	1	US-10-310-914A-711565	Sequence 711565,
895	17.4	0.6	19	1	US-11-101-244-266312	Sequence 266312,	c 968	17.4	0.6	18	1	US-10-310-914A-711650	Sequence 711650,
896	17.4	0.6	19	1	US-11-101-244-266316	Sequence 266316,	969	17.4	0.6	19	1	US-10-310-914A-1041590	Sequence 1041590,
897	17.4	0.6	19	1	US-11-101-244-266336	Sequence 266336,	970	17.4	0.6	19	1	US-10-310-914A-104978	Sequence 104978,
898	17.4	0.6	19	1	US-11-101-244-266328	Sequence 266328,	971	17.4	0.6	19	1	US-10-310-914A-112738	Sequence 112738,
899	17.4	0.6	19	1	US-11-101-244-266332	Sequence 266332,	c 972	17.4	0.6	19	1	US-10-310-914A-186966	Sequence 186966,
900	17.4	0.6	19	1	US-11-101-244-266338	Sequence 266338,	c 973	17.4	0.6	19	1	US-10-310-914A-197850	Sequence 197850,
901	17.4	0.6	19	1	US-11-101-244-266344	Sequence 266344,	c 974	17.4	0.6	19	1	US-10-310-914A-870707	Sequence 870707,
902	17.4	0.6	19	1	US-11-101-244-266353	Sequence 266353,	c 975	17.4	0.6	19	1	US-10-310-914A-964711	Sequence 964711,
903	17.4	0.6	19	1	US-11-101-244-266361	Sequence 266361,	976	17.4	0.6	19	1	US-11-083-784-266200	Sequence 266200,
904	17.4	0.6	19	1	US-11-101-244-266362	Sequence 266362,	977	17.4	0.6	19	1	US-11-083-784-266261	Sequence 266261,
905	17.4	0.6	19	1	US-11-101-244-266363	Sequence 266363,	978	17.4	0.6	19	1	US-11-083-784-266277	Sequence 266277,
906	17.4	0.6	20	1	US-10-310-914A-1013265	Sequence 1013265,	979	17.4	0.6	19	1	US-11-101-244-266200	Sequence 266200,
907	17.4	0.6	20	1	US-10-310-914A-1016297	Sequence 1016297,	980	17.4	0.6	19	1	US-11-101-244-266261	Sequence 266261,
908	17.4	0.6	20	1	US-10-310-914A-1040123	Sequence 1040123,	981	17.4	0.6	19	1	US-11-101-244-266277	Sequence 266277,
909	17.4	0.6	20	1	US-10-310-914A-112733	Sequence 112733,	c 982	17.4	0.6	20	1	US-10-310-914A-1041692	Sequence 1041692,



c 983	17	0.6	20	1	US-10-310-914A-186940,	Sequence 186940,	1056	16.8	0.6	20	1	US-10-310-914A-261068	Sequence 261068,
c 984	17	0.6	20	1	US-10-310-914A-221996,	Sequence 221996,	1057	16.8	0.6	20	1	US-10-310-914A-261069	Sequence 261069,
c 985	17	0.6	21	1	US-10-310-914A-197851	Sequence 197851	1058	16.8	0.6	20	1	US-10-310-914A-261070	Sequence 261070,
c 986	17	0.6	21	1	US-10-310-914A-229848	Sequence 229848,	1059	16.8	0.6	20	1	US-10-310-914A-279154	Sequence 279154,
c 987	17	0.6	21	1	US-10-310-914A-915374	Sequence 915374,	c1060	16.8	0.6	20	1	US-10-310-914A-279859	Sequence 279859,
c 988	16.8	0.6	20	1	US-10-310-914A-100323	Sequence 100323,	1061	16.8	0.6	20	1	US-10-310-914A-298810	Sequence 298810,
c 989	16.8	0.6	20	1	US-10-310-914A-100324	Sequence 100324,	c1062	16.8	0.6	20	1	US-10-310-914A-301548	Sequence 301548,
c 990	16.8	0.6	20	1	US-10-310-914A-1008713	Sequence 1008713,	1063	16.8	0.6	20	1	US-10-310-914A-311517	Sequence 311517,
c 991	16.8	0.6	20	1	US-10-310-914A-1008714	Sequence 1008714,	c1064	16.8	0.6	20	1	US-10-310-914A-312466	Sequence 312466,
c 992	16.8	0.6	20	1	US-10-310-914A-1008715	Sequence 1008715,	1065	16.8	0.6	20	1	US-10-310-914A-321860	Sequence 321860,
c 993	16.8	0.6	20	1	US-10-310-914A-1008717	Sequence 1008717,	c1066	16.8	0.6	20	1	US-10-310-914A-324398	Sequence 324398,
c 994	16.8	0.6	20	1	US-10-310-914A-1008722	Sequence 1008722,	1067	16.8	0.6	20	1	US-10-310-914A-326558	Sequence 326558,
c 995	16.8	0.6	20	1	US-10-310-914A-1008723	Sequence 1008723,	c1068	16.8	0.6	20	1	US-10-310-914A-339263	Sequence 339263,
c 996	16.8	0.6	20	1	US-10-310-914A-1010113	Sequence 1010113,	1069	16.8	0.6	20	1	US-10-310-914A-342470	Sequence 342470,
c 997	16.8	0.6	20	1	US-10-310-914A-1013233	Sequence 1013233,	c1070	16.8	0.6	20	1	US-10-310-914A-346856	Sequence 346856,
c 998	16.8	0.6	20	1	US-10-310-914A-114275	Sequence 114275,	c1071	16.8	0.6	20	1	US-10-310-914A-353987	Sequence 353987,
c 999	16.8	0.6	20	1	US-10-310-914A-1016269	Sequence 1016269,	1072	16.8	0.6	20	1	US-10-310-914A-353987	Sequence 353987,
c 1000	16.8	0.6	20	1	US-10-310-914A-1039935	Sequence 1039935,	1073	16.8	0.6	20	1	US-10-310-914A-368092	Sequence 368092,
c 1001	16.8	0.6	20	1	US-10-310-914A-1045776	Sequence 1045776,	c1074	16.8	0.6	20	1	US-10-310-914A-380387	Sequence 380387,
c 1002	16.8	0.6	20	1	US-10-310-914A-1105379	Sequence 1105379,	c1075	16.8	0.6	20	1	US-10-310-914A-380389	Sequence 380389,
c 1003	16.8	0.6	20	1	US-10-310-914A-1141622	Sequence 1141622,	c1076	16.8	0.6	20	1	US-10-310-914A-381502	Sequence 381502,
c 1004	16.8	0.6	20	1	US-10-310-914A-114275	Sequence 114275,	c1077	16.8	0.6	20	1	US-10-310-914A-381508	Sequence 381508,
c 1005	16.8	0.6	20	1	US-10-310-914A-1170924	Sequence 1170924,	c1078	16.8	0.6	20	1	US-10-310-914A-381508	Sequence 381508,
c 1006	16.8	0.6	20	1	US-10-310-914A-1170925	Sequence 1170925,	1079	16.8	0.6	20	1	US-10-310-914A-394385	Sequence 394385,
c 1007	16.8	0.6	20	1	US-10-310-914A-117100	Sequence 117100,	1080	16.8	0.6	20	1	US-10-310-914A-399096	Sequence 399096,
c 1008	16.8	0.6	20	1	US-10-310-914A-117101	Sequence 117101,	1081	16.8	0.6	20	1	US-10-310-914A-399103	Sequence 399103,
c 1009	16.8	0.6	20	1	US-10-310-914A-117103	Sequence 117103,	1082	16.8	0.6	20	1	US-10-310-914A-404969	Sequence 404969,
c 1010	16.8	0.6	20	1	US-10-310-914A-117106	Sequence 117106,	1083	16.8	0.6	20	1	US-10-310-914A-406861	Sequence 406861,
c 1011	16.8	0.6	20	1	US-10-310-914A-1175674	Sequence 1175674,	1084	16.8	0.6	20	1	US-10-310-914A-406862	Sequence 406862,
c 1012	16.8	0.6	20	1	US-10-310-914A-1179707	Sequence 1179707,	1085	16.8	0.6	20	1	US-10-310-914A-406863	Sequence 406863,
c 1013	16.8	0.6	20	1	US-10-310-914A-1183710	Sequence 1183710,	1086	16.8	0.6	20	1	US-10-310-914A-406898	Sequence 406898,
c 1014	16.8	0.6	20	1	US-10-310-914A-1203059	Sequence 1203059,	1087	16.8	0.6	20	1	US-10-310-914A-416101	Sequence 416101,
c 1015	16.8	0.6	20	1	US-10-310-914A-1223997	Sequence 1223997,	1088	16.8	0.6	20	1	US-10-310-914A-416102	Sequence 416102,
c 1016	16.8	0.6	20	1	US-10-310-914A-1223955	Sequence 1223955,	1089	16.8	0.6	20	1	US-10-310-914A-42403	Sequence 42403, A
c 1017	16.8	0.6	20	1	US-10-310-914A-1233421	Sequence 1233421,	1090	16.8	0.6	20	1	US-10-310-914A-42404	Sequence 42404, A
c 1018	16.8	0.6	20	1	US-10-310-914A-1330331	Sequence 1330331,	1091	16.8	0.6	20	1	US-10-310-914A-42405	Sequence 42405, A
c 1019	16.8	0.6	20	1	US-10-310-914A-1330332	Sequence 1330332,	1092	16.8	0.6	20	1	US-10-310-914A-42406	Sequence 42406, A
c 1020	16.8	0.6	20	1	US-10-310-914A-134682	Sequence 134682,	1093	16.8	0.6	20	1	US-10-310-914A-42408	Sequence 42408, A
c 1021	16.8	0.6	20	1	US-10-310-914A-1376268	Sequence 1376268,	1094	16.8	0.6	20	1	US-10-310-914A-42409	Sequence 42409, A
c 1022	16.8	0.6	20	1	US-10-310-914A-146282	Sequence 146282,	1100	16.8	0.6	20	1	US-10-310-914A-437033	Sequence 437033,
c 1023	16.8	0.6	20	1	US-10-310-914A-151325	Sequence 151325,	1101	16.8	0.6	20	1	US-10-310-914A-452199	Sequence 452199,
c 1024	16.8	0.6	20	1	US-10-310-914A-159209	Sequence 159209,	c1102	16.8	0.6	20	1	US-10-310-914A-452198	Sequence 452198, A
c 1025	16.8	0.6	20	1	US-10-310-914A-168020	Sequence 168020,	1103	16.8	0.6	20	1	US-10-310-914A-463646	Sequence 463646,
c 1030	16.8	0.6	20	1	US-10-310-914A-168021	Sequence 168021,	1104	16.8	0.6	20	1	US-10-310-914A-503528	Sequence 503528,
c 1031	16.8	0.6	20	1	US-10-310-914A-168021	Sequence 168021,	c1105	16.8	0.6	20	1	US-10-310-914A-509639	Sequence 509639,
c 1032	16.8	0.6	20	1	US-10-310-914A-177782	Sequence 177782,	1106	16.8	0.6	20	1	US-10-310-914A-516163	Sequence 516163,
c 1033	16.8	0.6	20	1	US-10-310-914A-177783	Sequence 177783,	1107	16.8	0.6	20	1	US-10-310-914A-516171	Sequence 516171,
c 1034	16.8	0.6	20	1	US-10-310-914A-177784	Sequence 177784,	1108	16.8	0.6	20	1	US-10-310-914A-536233	Sequence 536233,
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c 1038	16.8	0.6	20	1	US-10-310-914A-182882	Sequence 182882,	1112	16.8	0.6	20	1	US-10-310-914A-536240	Sequence 536240,
c 1039	16.8	0.6	20	1	US-10-310-914A-186962	Sequence 186962,	1113	16.8	0.6	20	1	US-10-310-914A-536249	Sequence 536249,
c 1040	16.8	0.6	20	1	US-10-310-914A-188819	Sequence 188819,	1114	16.8	0.6	20	1	US-10-310-914A-586512	Sequence 586512,
c 1041	16.8	0.6	20	1	US-10-310-914A-191783	Sequence 191783,	1115	16.8	0.6	20	1	US-10-310-914A-587646	Sequence 587646,
c 1042	16.8	0.6	20	1	US-10-310-914A-193755	Sequence 193755,	1116	16.8	0.6	20	1	US-10-310-914A-629565	Sequence 629565,
c 1043	16.8	0.6	20	1	US-10-310-914A-199647	Sequence 199647,	1117	16.8	0.6	20	1	US-10-310-914A-649495	Sequence 649495,
c 1044	16.8	0.6	20	1	US-10-310-914A-219246	Sequence 219246,	1118	16.8	0.6	20	1	US-10-310-914A-649511	Sequence 649511,
c 1045	16.8	0.6	20	1	US-10-310-914A-222266	Sequence 222266,	1119	16.8	0.6	20	1	US-10-310-914A-656127	Sequence 656127,
c 1046	16.8	0.6	20	1	US-10-310-914A-226044	Sequence 226044,	1120	16.8	0.6	20	1	US-10-310-914A-659491	Sequence 659491,
c 1047	16.8	0.6	20	1	US-10-310-914A-226045	Sequence 226045,	1121	16.8	0.6	20	1	US-10-310-914A-689305	Sequence 689305,
c 1048	16.8	0.6	20	1	US-10-310-914A-226046	Sequence 226046,	1122	16.8	0.6	20	1	US-10-310-914A-69749	Sequence 69749, A
c 1049	16.8	0.6	20	1	US-10-310-914A-226047	Sequence 226047,	1123	16.8	0.6	20	1		
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c 1051	16.8	0.6	20	1	US-10-310-914A-226049	Sequence 226049,	1125	16.8	0.6	20	1		
c 1052	16.8	0.6	20	1	US-10-310-914A-228875	Sequence 228875,	1126	16.8	0.6	20	1		
c 1053	16.8	0.6	20	1	US-10-310-914A-229037	Sequence 229037,	1127	16.8	0.6	20	1		
c 1054	16.8	0.6	20	1	US-10-310-914A-231260	Sequence 231260,	1128	16.8	0.6	20	1		
c 1055	16.8	0.6	20	1	US-10-310-914A-248957	Sequence 248957,							



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1131	16.8	0.6	20	1	US-10-310-914A-704781	Sequence 704781,	c1204	16.8	0.6	21	1	US-10-310-914A-1343685	Sequence 1343685,
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1133	16.8	0.6	20	1	US-10-310-914A-730608	Sequence 730608,	1206	16.8	0.6	21	1	US-10-310-914A-1365317	Sequence 1365317,
1134	16.8	0.6	20	1	US-10-310-914A-733338	Sequence 733338,	c1207	16.8	0.6	21	1	US-10-310-914A-1365590	Sequence 1365590,
1135	16.8	0.6	20	1	US-10-310-914A-743436	Sequence 743436,	c1208	16.8	0.6	21	1	US-10-310-914A-1365591	Sequence 1365591,
1136	16.8	0.6	20	1	US-10-310-914A-743437	Sequence 743437,	c1209	16.8	0.6	21	1	US-10-310-914A-1365592	Sequence 1365592,
1137	16.8	0.6	20	1	US-10-310-914A-761113	Sequence 761113,	c1210	16.8	0.6	21	1	US-10-310-914A-1365593	Sequence 1365593,
1138	16.8	0.6	20	1	US-10-310-914A-77676	Sequence 77676,	c1211	16.8	0.6	21	1	US-10-310-914A-1365594	Sequence 1365594,
1139	16.8	0.6	20	1	US-10-310-914A-78079	Sequence 78079,	c1212	16.8	0.6	21	1	US-10-310-914A-1365595	Sequence 1365595,
1140	16.8	0.6	20	1	US-10-310-914A-78080	Sequence 78080,	c1213	16.8	0.6	21	1	US-10-310-914A-1365596	Sequence 1365596,
1141	16.8	0.6	20	1	US-10-310-914A-78081	Sequence 78081,	1214	16.8	0.6	21	1	US-10-310-914A-1365596	Sequence 1365596,
1142	16.8	0.6	20	1	US-10-310-914A-78082	Sequence 78082,	c1215	16.8	0.6	21	1	US-10-310-914A-1365930	Sequence 1365930,
1143	16.8	0.6	20	1	US-10-310-914A-795952	Sequence 795952,	c1216	16.8	0.6	21	1	US-10-310-914A-1370010	Sequence 1370010,
1144	16.8	0.6	20	1	US-10-310-914A-807647	Sequence 807647,	c1217	16.8	0.6	21	1	US-10-310-914A-138531	Sequence 138531,
1145	16.8	0.6	20	1	US-10-310-914A-807648	Sequence 807648,	c1218	16.8	0.6	21	1	US-10-310-914A-1385315	Sequence 1385315,
1146	16.8	0.6	20	1	US-10-310-914A-807650	Sequence 807650,	c1219	16.8	0.6	21	1	US-10-310-914A-1385316	Sequence 1385316,
1147	16.8	0.6	20	1	US-10-310-914A-807652	Sequence 807652,	1220	16.8	0.6	21	1	US-10-310-914A-1385317	Sequence 1385317,
1148	16.8	0.6	20	1	US-10-310-914A-807658	Sequence 807658,	c1221	16.8	0.6	21	1	US-10-310-914A-143170	Sequence 143170,
1149	16.8	0.6	20	1	US-10-310-914A-807659	Sequence 807659,	c1222	16.8	0.6	21	1	US-10-310-914A-148278	Sequence 148278,
1150	16.8	0.6	20	1	US-10-310-914A-816498	Sequence 816498,	1223	16.8	0.6	21	1	US-10-310-914A-148692	Sequence 148692,
1151	16.8	0.6	20	1	US-10-310-914A-821819	Sequence 821819,	c1224	16.8	0.6	21	1	US-10-310-914A-152831	Sequence 152831,
1152	16.8	0.6	20	1	US-10-310-914A-824416	Sequence 824416,	c1225	16.8	0.6	21	1	US-10-310-914A-163384	Sequence 163384,
1153	16.8	0.6	20	1	US-10-310-914A-838205	Sequence 838205,	c1226	16.8	0.6	21	1	US-10-310-914A-167360	Sequence 167360,
1154	16.8	0.6	20	1	US-10-310-914A-838387	Sequence 838387,	c1227	16.8	0.6	21	1	US-10-310-914A-167726	Sequence 167726,
1155	16.8	0.6	20	1	US-10-310-914A-845273	Sequence 845273,	c1228	16.8	0.6	21	1	US-10-310-914A-167726	Sequence 167726,
1156	16.8	0.6	20	1	US-10-310-914A-845274	Sequence 845274,	c1229	16.8	0.6	21	1	US-10-310-914A-181028	Sequence 181028,
1157	16.8	0.6	20	1	US-10-310-914A-864302	Sequence 864302,	c1230	16.8	0.6	21	1	US-10-310-914A-181029	Sequence 181029,
1158	16.8	0.6	20	1	US-10-310-914A-87754	Sequence 87754,	c1231	16.8	0.6	21	1	US-10-310-914A-181030	Sequence 181030,
1159	16.8	0.6	20	1	US-10-310-914A-88230	Sequence 88230,	c1232	16.8	0.6	21	1	US-10-310-914A-181031	Sequence 181031,
1160	16.8	0.6	20	1	US-10-310-914A-88239	Sequence 88239,	c1233	16.8	0.6	21	1	US-10-310-914A-181032	Sequence 181032,
1161	16.8	0.6	20	1	US-10-310-914A-884525	Sequence 884525,	c1234	16.8	0.6	21	1	US-10-310-914A-181033	Sequence 181033,
1162	16.8	0.6	20	1	US-10-310-914A-889435	Sequence 889435,	c1235	16.8	0.6	21	1	US-10-310-914A-181034	Sequence 181034,
1163	16.8	0.6	20	1	US-10-310-914A-89191	Sequence 89191,	c1236	16.8	0.6	21	1	US-10-310-914A-182771	Sequence 182771,
1164	16.8	0.6	20	1	US-10-310-914A-906948	Sequence 906948,	c1237	16.8	0.6	21	1	US-10-310-914A-182800	Sequence 182800,
1165	16.8	0.6	20	1	US-10-310-914A-971298	Sequence 971298,	c1238	16.8	0.6	21	1	US-10-310-914A-189776	Sequence 189776,
1166	16.8	0.6	20	1	US-10-310-914A-971299	Sequence 971299,	c1239	16.8	0.6	21	1	US-10-310-914A-189785	Sequence 189785,
1167	16.8	0.6	20	1	US-10-310-914A-972995	Sequence 972995,	c1240	16.8	0.6	21	1	US-10-310-914A-193606	Sequence 193606,
1168	16.8	0.6	20	1	US-10-310-914A-992022	Sequence 992022,	c1241	16.8	0.6	21	1	US-10-310-914A-193607	Sequence 193607,
1169	16.8	0.6	20	1	US-10-310-914A-997341	Sequence 997341,	c1242	16.8	0.6	21	1	US-10-310-914A-200844	Sequence 200844,
1170	16.8	0.6	20	1	US-10-858-341-989	Sequence 989,	c1243	16.8	0.6	21	1	US-10-310-914A-215746	Sequence 215746,
1171	16.8	0.6	20	1	US-11-127-654-235	Sequence 235,	c1244	16.8	0.6	21	1	US-10-310-914A-215747	Sequence 215747,
1172	16.8	0.6	20	1	US-11-127-654-248	Sequence 248,	c1245	16.8	0.6	21	1	US-10-310-914A-215748	Sequence 215748,
1173	16.8	0.6	20	1	US-11-127-654-507	Sequence 507,	c1246	16.8	0.6	21	1	US-10-310-914A-218129	Sequence 218129,
1174	16.8	0.6	20	1	US-11-127-654-508	Sequence 508,	c1247	16.8	0.6	21	1	US-10-310-914A-223362	Sequence 223362,
1175	16.8	0.6	20	1	US-11-179-128-63	Sequence 63,	c1248	16.8	0.6	21	1	US-10-310-914A-226963	Sequence 226963,
1176	16.8	0.6	21	1	US-10-310-914A-1001530	Sequence 1001530,	c1249	16.8	0.6	21	1	US-10-310-914A-241057	Sequence 241057,
1177	16.8	0.6	21	1	US-10-310-914A-1003339	Sequence 1003339,	c1250	16.8	0.6	21	1	US-10-310-914A-241058	Sequence 241058,
1178	16.8	0.6	21	1	US-10-310-914A-100675	Sequence 100675,	c1251	16.8	0.6	21	1	US-10-310-914A-241059	Sequence 241059,
1179	16.8	0.6	21	1	US-10-310-914A-1008694	Sequence 1008694,	c1252	16.8	0.6	21	1	US-10-310-914A-241060	Sequence 241060,
1180	16.8	0.6	21	1	US-10-310-914A-1012104	Sequence 1012104,	c1253	16.8	0.6	21	1	US-10-310-914A-241061	Sequence 241061,
1181	16.8	0.6	21	1	US-10-310-914A-101760	Sequence 101760,	c1254	16.8	0.6	21	1	US-10-310-914A-241062	Sequence 241062,
1182	16.8	0.6	21	1	US-10-310-914A-1027629	Sequence 1027629,	c1255	16.8	0.6	21	1	US-10-310-914A-241063	Sequence 241063,
1183	16.8	0.6	21	1	US-10-310-914A-1027630	Sequence 1027630,	c1256	16.8	0.6	21	1	US-10-310-914A-241064	Sequence 241064,
1184	16.8	0.6	21	1	US-10-310-914A-1063058	Sequence 1063058,	c1257	16.8	0.6	21	1	US-10-310-914A-241065	Sequence 241065,
1185	16.8	0.6	21	1	US-10-310-914A-1105365	Sequence 1105365,	c1258	16.8	0.6	21	1	US-10-310-914A-241066	Sequence 241066,
1186	16.8	0.6	21	1	US-10-310-914A-114276	Sequence 114276,	c1259	16.8	0.6	21	1	US-10-310-914A-241067	Sequence 241067,
1187	16.8	0.6	21	1	US-10-310-914A-1165143	Sequence 1165143,	c1260	16.8	0.6	21	1	US-10-310-914A-241068	Sequence 241068,
1188	16.8	0.6	21	1	US-10-310-914A-1185122	Sequence 1185122,	c1261	16.8	0.6	21	1	US-10-310-914A-241069	Sequence 241069,
1189	16.8	0.6	21	1	US-10-310-914A-1216672	Sequence 1216672,	c1262	16.8	0.6	21	1	US-10-310-914A-241070	Sequence 241070,
1190	16.8	0.6	21	1	US-10-310-914A-1233422	Sequence 1233422,	1263	16.8	0.6	21	1	US-10-310-914A-245294	Sequence 245294,
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1192	16.8	0.6	21	1	US-10-310-914A-1255929	Sequence 1255929,	c1265	16.8	0.6	21	1	US-10-310-914A-275935	Sequence 275935,
1193	16.8	0.6	21	1	US-10-310-914A-1268682	Sequence 1268682,	c1266	16.8	0.6	21	1	US-10-310-914A-276564	Sequence 276564,
1194	16.8	0.6	21	1	US-10-310-914A-1281611	Sequence 1281611,	1267	16.8	0.6	21	1	US-10-310-914A-294420	Sequence 294420,
1195	16.8	0.6	21	1	US-10-310-914A-1281612	Sequence 1281612,	1268	16.8	0.6	21	1	US-10-310-914A-294468	Sequence 294468,
1196	16.8	0.6	21	1	US-10-310-914A-1281613	Sequence 1281613,	1269	16.8	0.6	21	1	US-10-310-914A-294585	Sequence 294585,
1197	16.8	0.6	21	1	US-10-310-914A-1281614	Sequence 1281614,	1270	16.8	0.6	21	1	US-10-310-914A-294628	Sequence 294628,
1198	16.8	0.6	21	1	US-10-310-914A-1281615	Sequence 1281615,	1271	16.8	0.6	21	1	US-10-310-914A-294766	Sequence 294766,
1199	16.8	0.6	21	1	US-10-310-914A-1281616	Sequence 1281616,	1272	16.8	0.6	21	1	US-10-310-914A-294826	Sequence 294826,
1200	16.8	0.6	21	1	US-10-310-914A-1281617	Sequence 1281617,	1273	16.8	0.6	21	1	US-10-310-914A-294952	Sequence 294952,
1201	16.8	0.6	21	1	US-10-310-914A-1281618	Sequence 1281618,	1274	16.8	0.6	21	1	US-10-310-914A-294999	Sequence 294999,

1275	16.8	0.6	21	1	US-10-310-914A-295114	Sequence 295114,	c1348	16.8	0.6	21	1	US-10-310-914A-508535	Sequence 508535,
1276	16.8	0.6	21	1	US-10-310-914A-295154	Sequence 295154,	1349	16.8	0.6	21	1	US-10-310-914A-516154	Sequence 516154,
1277	16.8	0.6	21	1	US-10-310-914A-295282	Sequence 295282,	c1350	16.8	0.6	21	1	US-10-310-914A-51719	Sequence 51719, A
1278	16.8	0.6	21	1	US-10-310-914A-295324	Sequence 295324,	c1351	16.8	0.6	21	1	US-10-310-914A-519023	Sequence 519023,
1279	16.8	0.6	21	1	US-10-310-914A-295436	Sequence 295436,	1352	16.8	0.6	21	1	US-10-310-914A-519403	Sequence 519403,
1280	16.8	0.6	21	1	US-10-310-914A-295481	Sequence 295481,	1353	16.8	0.6	21	1	US-10-310-914A-545432	Sequence 545432,
1281	16.8	0.6	21	1	US-10-310-914A-295588	Sequence 295588,	c1354	16.8	0.6	21	1	US-10-310-914A-547175	Sequence 547175,
1282	16.8	0.6	21	1	US-10-310-914A-295630	Sequence 295630,	c1355	16.8	0.6	21	1	US-10-310-914A-548421	Sequence 548421,
1283	16.8	0.6	21	1	US-10-310-914A-295746	Sequence 295746,	c1356	16.8	0.6	21	1	US-10-310-914A-549686	Sequence 549686,
1284	16.8	0.6	21	1	US-10-310-914A-295788	Sequence 295788,	c1357	16.8	0.6	21	1	US-10-310-914A-552935	Sequence 552935,
1285	16.8	0.6	21	1	US-10-310-914A-295901	Sequence 295901,	c1358	16.8	0.6	21	1	US-10-310-914A-556792	Sequence 556792,
1286	16.8	0.6	21	1	US-10-310-914A-295947	Sequence 295947,	c1359	16.8	0.6	21	1	US-10-310-914A-574290	Sequence 574290,
1287	16.8	0.6	21	1	US-10-310-914A-296074	Sequence 296074,	1360	16.8	0.6	21	1	US-10-310-914A-583011	Sequence 583011,
1288	16.8	0.6	21	1	US-10-310-914A-296129	Sequence 296129,	c1361	16.8	0.6	21	1	US-10-310-914A-608029	Sequence 608029,
1289	16.8	0.6	21	1	US-10-310-914A-296253	Sequence 296253,	c1362	16.8	0.6	21	1	US-10-310-914A-609386	Sequence 609386,
1290	16.8	0.6	21	1	US-10-310-914A-296296	Sequence 296296,	1363	16.8	0.6	21	1	US-10-310-914A-616562	Sequence 616562,
1291	16.8	0.6	21	1	US-10-310-914A-296409	Sequence 296409,	1364	16.8	0.6	21	1	US-10-310-914A-629548	Sequence 629548,
1292	16.8	0.6	21	1	US-10-310-914A-296453	Sequence 296453,	1365	16.8	0.6	21	1	US-10-310-914A-649223	Sequence 649223,
1293	16.8	0.6	21	1	US-10-310-914A-296566	Sequence 296566,	c1366	16.8	0.6	21	1	US-10-310-914A-656119	Sequence 656119,
1294	16.8	0.6	21	1	US-10-310-914A-296611	Sequence 296611,	c1367	16.8	0.6	21	1	US-10-310-914A-670369	Sequence 670369,
1295	16.8	0.6	21	1	US-10-310-914A-296726	Sequence 296726,	c1368	16.8	0.6	21	1	US-10-310-914A-683849	Sequence 683849,
1296	16.8	0.6	21	1	US-10-310-914A-296768	Sequence 296768,	c1369	16.8	0.6	21	1	US-10-310-914A-701735	Sequence 701735,
1297	16.8	0.6	21	1	US-10-310-914A-296884	Sequence 296884,	c1370	16.8	0.6	21	1	US-10-310-914A-711945	Sequence 711945,
1298	16.8	0.6	21	1	US-10-310-914A-296929	Sequence 296929,	c1371	16.8	0.6	21	1	US-10-310-914A-720933	Sequence 720933,
1299	16.8	0.6	21	1	US-10-310-914A-297041	Sequence 297041,	c1372	16.8	0.6	21	1	US-10-310-914A-763054	Sequence 763054,
1300	16.8	0.6	21	1	US-10-310-914A-297084	Sequence 297084,	1373	16.8	0.6	21	1	US-10-310-914A-78087	Sequence 78087, A
1301	16.8	0.6	21	1	US-10-310-914A-297197	Sequence 297197,	c1374	16.8	0.6	21	1	US-10-310-914A-786713	Sequence 786713,
1302	16.8	0.6	21	1	US-10-310-914A-297243	Sequence 297243,	c1375	16.8	0.6	21	1	US-10-310-914A-793013	Sequence 793013,
1303	16.8	0.6	21	1	US-10-310-914A-297359	Sequence 297359,	1376	16.8	0.6	21	1	US-10-310-914A-795818	Sequence 795818,
1304	16.8	0.6	21	1	US-10-310-914A-297408	Sequence 297408,	c1377	16.8	0.6	21	1	US-10-310-914A-79810	Sequence 79810, A
1305	16.8	0.6	21	1	US-10-310-914A-297538	Sequence 297538,	c1378	16.8	0.6	21	1	US-10-310-914A-79811	Sequence 79811, A
1306	16.8	0.6	21	1	US-10-310-914A-297590	Sequence 297590,	1379	16.8	0.6	21	1	US-10-310-914A-807623	Sequence 807623,
1307	16.8	0.6	21	1	US-10-310-914A-297703	Sequence 297703,	1380	16.8	0.6	21	1	US-10-310-914A-807632	Sequence 807632,
1308	16.8	0.6	21	1	US-10-310-914A-297749	Sequence 297749,	c1381	16.8	0.6	21	1	US-10-310-914A-816520	Sequence 816520,
1309	16.8	0.6	21	1	US-10-310-914A-297861	Sequence 297861,	1382	16.8	0.6	21	1	US-10-310-914A-819695	Sequence 819695,
1310	16.8	0.6	21	1	US-10-310-914A-297905	Sequence 297905,	1383	16.8	0.6	21	1	US-10-310-914A-831665	Sequence 831665,
1311	16.8	0.6	21	1	US-10-310-914A-301389	Sequence 301389,	1384	16.8	0.6	21	1	US-10-310-914A-831666	Sequence 831666,
1312	16.8	0.6	21	1	US-10-310-914A-301569	Sequence 301569,	c1385	16.8	0.6	21	1	US-10-310-914A-84199	Sequence 84199, A
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1314	16.8	0.6	21	1	US-10-310-914A-305979	Sequence 305979,	c1387	16.8	0.6	21	1	US-10-310-914A-872020	Sequence 872020,
1315	16.8	0.6	21	1	US-10-310-914A-305980	Sequence 305980,	c1388	16.8	0.6	21	1	US-10-310-914A-87806	Sequence 87806, A
1316	16.8	0.6	21	1	US-10-310-914A-305981	Sequence 305981,	c1389	16.8	0.6	21	1	US-10-310-914A-87807	Sequence 87807, A
1317	16.8	0.6	21	1	US-10-310-914A-324425	Sequence 324425,	c1390	16.8	0.6	21	1	US-10-310-914A-87808	Sequence 87808, A
1318	16.8	0.6	21	1	US-10-310-914A-326630	Sequence 326630,	c1391	16.8	0.6	21	1	US-10-310-914A-87809	Sequence 87809, A
1319	16.8	0.6	21	1	US-10-310-914A-33282	Sequence 33282,	c1392	16.8	0.6	21	1	US-10-310-914A-87810	Sequence 87810, A
1320	16.8	0.6	21	1	US-10-310-914A-338999	Sequence 338999,	1393	16.8	0.6	21	1	US-10-310-914A-880040	Sequence 880040,
1321	16.8	0.6	21	1	US-10-310-914A-342337	Sequence 342337,	c1394	16.8	0.6	21	1	US-10-310-914A-891040	Sequence 891040,
1322	16.8	0.6	21	1	US-10-310-914A-468808	Sequence 468808,	c1395	16.8	0.6	21	1	US-10-310-914A-89459	Sequence 89459, A
1323	16.8	0.6	21	1	US-10-310-914A-470333	Sequence 470333,	1396	16.8	0.6	21	1	US-10-310-914A-908425	Sequence 908425,
1324	16.8	0.6	21	1	US-10-310-914A-47454	Sequence 47454,	c1397	16.8	0.6	21	1	US-10-310-914A-908459	Sequence 908459,
1325	16.8	0.6	21	1	US-10-310-914A-47516	Sequence 47516,	c1398	16.8	0.6	21	1	US-10-310-914A-911460	Sequence 911460,
1326	16.8	0.6	21	1	US-10-310-914A-47516	Sequence 47516,	c1399	16.8	0.6	21	1	US-10-310-914A-918188	Sequence 918188,
1327	16.8	0.6	21	1	US-10-310-914A-47516	Sequence 47516,	c1400	16.8	0.6	21	1	US-10-310-914A-950371	Sequence 950371,
1328	16.8	0.6	21	1	US-10-310-914A-47516	Sequence 47516,	c1401	16.8	0.6	21	1	US-10-310-914A-950372	Sequence 950372,
1329	16.8	0.6	21	1	US-10-310-914A-47516	Sequence 47516,	1402	16.8	0.6	21	1	US-10-310-914A-956038	Sequence 956038,
1330	16.8	0.6	21	1	US-10-310-914A-473398	Sequence 473398,	1403	16.8	0.6	21	1	US-10-310-914A-956053	Sequence 956053,
1331	16.8	0.6	21	1	US-10-310-914A-456447	Sequence 456447,	1404	16.8	0.6	21	1	US-10-310-914A-997342	Sequence 997342,
1332	16.8	0.6	21	1	US-10-310-914A-456448	Sequence 456448,	c1405	16.8	0.6	21	1	US-10-770-728-10997	Sequence 10997, A
1333	16.8	0.6	21	1	US-10-310-914A-456449	Sequence 456449,	c1406	16.8	0.6	18	1	US-10-310-914A-1041650	Sequence 1041650,
1334	16.8	0.6	21	1	US-10-310-914A-463162	Sequence 463162,	c1407	16.4	0.6	18	1	US-10-310-914A-1045863	Sequence 1045863,
1335	16.8	0.6	21	1	US-10-310-914A-463786	Sequence 463786,	c1408	16.4	0.6	18	1	US-10-310-914A-1157454	Sequence 1157454,
1336	16.8	0.6	21	1	US-10-310-914A-463787	Sequence 463787,	1409	16.4	0.6	18	1	US-10-310-914A-116696	Sequence 116696,
1337	16.8	0.6	21	1	US-10-310-914A-463788	Sequence 463788,	c1410	16.4	0.6	18	1	US-10-310-914A-118040	Sequence 118040,
1338	16.8	0.6	21	1	US-10-310-914A-468008	Sequence 468008,	c1411	16.4	0.6	18	1	US-10-310-914A-1185121	Sequence 1185121,
1339	16.8	0.6	21	1	US-10-310-914A-476174	Sequence 476174,	c1412	16.4	0.6	18	1	US-10-310-914A-1209757	Sequence 1209757,
1340	16.8	0.6	21	1	US-10-310-914A-483422	Sequence 483422,	c1413	16.4	0.6	18	1	US-10-310-914A-1219741	Sequence 1219741,
1341	16.8	0.6	21	1	US-10-310-914A-483423	Sequence 483423,	1414	16.4	0.6	18	1	US-10-310-914A-1253235	Sequence 1253235,
1342	16.8	0.6	21	1	US-10-310-914A-483424	Sequence 483424,	c1415	16.4	0.6	18	1	US-10-310-914A-1259598	Sequence 1259598,
1343	16.8	0.6	21	1	US-10-310-914A-483425	Sequence 483425,	c1416	16.4	0.6	18	1	US-10-310-914A-1319114	Sequence 1319114,
1344	16.8	0.6	21	1	US-10-310-914A-483426	Sequence 483426,	c1417	16.4	0.6	18	1	US-10-310-914A-1330686	Sequence 1330686,
1345	16.8	0.6	21	1	US-10-310-914A-483427	Sequence 483427,	c1418	16.4	0.6	18	1	US-10-310-914A-1330687	Sequence 1330687,
1346	16.8	0.6	21	1	US-10-310-914A-495393	Sequence 495393,	1419	16.4	0.6	18	1	US-10-310-914A-1373008	Sequence 1373008,
1347	16.8	0.6	21	1	US-10-310-914A-505796	Sequence 505796,	1420	16.4	0.6	18	1	US-10-310-914A-1373190	Sequence 1373190,

1421	16.4	0.6	18	1	US-10-310-914A-138017	Sequence 138017,	1494	16.4	0.6	19	1	US-10-310-914A-1258176	Sequence 1258176,
c1422	16.4	0.6	18	1	US-10-310-914A-148796	Sequence 148796,	c1495	16.4	0.6	19	1	US-10-310-914A-1263726	Sequence 1263726,
c1423	16.4	0.6	18	1	US-10-310-914A-189617	Sequence 189617,	c1496	16.4	0.6	19	1	US-10-310-914A-1319112	Sequence 1319112,
1424	16.4	0.6	18	1	US-10-310-914A-191742	Sequence 191742,	c1497	16.4	0.6	19	1	US-10-310-914A-133044	Sequence 133044,
1425	16.4	0.6	18	1	US-10-310-914A-215672	Sequence 215672,	1498	16.4	0.6	19	1	US-10-310-914A-1373058	Sequence 1373058,
c1426	16.4	0.6	18	1	US-10-310-914A-222245	Sequence 222245,	1499	16.4	0.6	19	1	US-10-310-914A-1673752	Sequence 1673752,
c1427	16.4	0.6	18	1	US-10-310-914A-223349	Sequence 223349,	1500	16.4	0.6	19	1	US-10-310-914A-168061	Sequence 168061,
c1428	16.4	0.6	18	1	US-10-310-914A-232350	Sequence 232350,	c1501	16.4	0.6	19	1	US-10-310-914A-169346	Sequence 169346,
1429	16.4	0.6	18	1	US-10-310-914A-238181	Sequence 238181,	1502	16.4	0.6	19	1	US-10-310-914A-182475	Sequence 182475,
c1430	16.4	0.6	18	1	US-10-310-914A-248989	Sequence 248989,	c1503	16.4	0.6	19	1	US-10-310-914A-197856	Sequence 197856,
1431	16.4	0.6	18	1	US-10-310-914A-261032	Sequence 261032,	c1504	16.4	0.6	19	1	US-10-310-914A-211228	Sequence 211228,
c1432	16.4	0.6	18	1	US-10-310-914A-301502	Sequence 301502,	1505	16.4	0.6	19	1	US-10-310-914A-215664	Sequence 215664,
1433	16.4	0.6	18	1	US-10-310-914A-311513	Sequence 311513,	c1506	16.4	0.6	19	1	US-10-310-914A-223378	Sequence 223378,
c1434	16.4	0.6	18	1	US-10-310-914A-327959	Sequence 327959,	c1507	16.4	0.6	19	1	US-10-310-914A-238169	Sequence 238169,
c1435	16.4	0.6	18	1	US-10-310-914A-339245	Sequence 339245,	1508	16.4	0.6	19	1	US-10-310-914A-244533	Sequence 244533,
1436	16.4	0.6	18	1	US-10-310-914A-342312	Sequence 342312,	c1509	16.4	0.6	19	1	US-10-310-914A-257829	Sequence 257829,
c1437	16.4	0.6	18	1	US-10-310-914A-411860	Sequence 411860,	c1510	16.4	0.6	19	1	US-10-310-914A-307078	Sequence 307078,
c1438	16.4	0.6	18	1	US-10-310-914A-414674	Sequence 414674,	c1511	16.4	0.6	19	1	US-10-310-914A-339144	Sequence 339144,
c1439	16.4	0.6	18	1	US-10-310-914A-416389	Sequence 416389,	1512	16.4	0.6	19	1	US-10-310-914A-390923	Sequence 390923,
c1440	16.4	0.6	18	1	US-10-310-914A-432635	Sequence 432635,	1513	16.4	0.6	19	1	US-10-310-914A-391342	Sequence 391342,
1441	16.4	0.6	18	1	US-10-310-914A-480189	Sequence 480189,	1514	16.4	0.6	19	1	US-10-310-914A-416105	Sequence 416105,
c1442	16.4	0.6	18	1	US-10-310-914A-503543	Sequence 503543,	c1515	16.4	0.6	19	1	US-10-310-914A-494558	Sequence 494558,
c1443	16.4	0.6	18	1	US-10-310-914A-540538	Sequence 540538,	c1516	16.4	0.6	19	1	US-10-310-914A-495454	Sequence 495454,
1444	16.4	0.6	18	1	US-10-310-914A-548425	Sequence 548425,	c1517	16.4	0.6	19	1	US-10-310-914A-569201	Sequence 569201,
c1445	16.4	0.6	18	1	US-10-310-914A-562896	Sequence 562896,	c1518	16.4	0.6	19	1	US-10-310-914A-590255	Sequence 590255,
1446	16.4	0.6	18	1	US-10-310-914A-564551	Sequence 564551,	c1519	16.4	0.6	19	1	US-10-310-914A-656126	Sequence 656126,
c1447	16.4	0.6	18	1	US-10-310-914A-587494	Sequence 587494,	c1520	16.4	0.6	19	1	US-10-310-914A-691351	Sequence 691351,
c1448	16.4	0.6	18	1	US-10-310-914A-587504	Sequence 587504,	1521	16.4	0.6	19	1	US-10-310-914A-707882	Sequence 707882,
1449	16.4	0.6	18	1	US-10-310-914A-632585	Sequence 632585,	1522	16.4	0.6	19	1	US-10-310-914A-743691	Sequence 743691,
1450	16.4	0.6	18	1	US-10-310-914A-640441	Sequence 640441,	c1523	16.4	0.6	19	1	US-10-310-914A-755243	Sequence 755243,
c1451	16.4	0.6	18	1	US-10-310-914A-656140	Sequence 656140,	c1524	16.4	0.6	19	1	US-10-310-914A-787688	Sequence 787688,
1452	16.4	0.6	18	1	US-10-310-914A-665998	Sequence 665998,	c1525	16.4	0.6	19	1	US-10-310-914A-791461	Sequence 791461,
c1453	16.4	0.6	18	1	US-10-310-914A-681386	Sequence 681386,	c1526	16.4	0.6	19	1	US-10-310-914A-804905	Sequence 804905,
1454	16.4	0.6	18	1	US-10-310-914A-686601	Sequence 686601,	c1527	16.4	0.6	19	1	US-10-310-914A-890721	Sequence 890721,
1455	16.4	0.6	18	1	US-10-310-914A-712354	Sequence 712354,	1528	16.4	0.6	19	1	US-10-310-914A-896609	Sequence 896609,
c1456	16.4	0.6	18	1	US-10-310-914A-756960	Sequence 756960,	c1529	16.4	0.6	19	1	US-10-310-914A-899419	Sequence 899419,
1457	16.4	0.6	18	1	US-10-310-914A-756961	Sequence 756961,	1530	16.4	0.6	19	1	US-10-310-914A-899686	Sequence 899686,
1458	16.4	0.6	18	1	US-10-310-914A-756962	Sequence 756962,	1531	16.4	0.6	19	1	US-10-310-914A-917308	Sequence 917308,
1459	16.4	0.6	18	1	US-10-310-914A-756963	Sequence 756963,	c1532	16.4	0.6	19	1	US-10-310-914A-929354	Sequence 929354,
1460	16.4	0.6	18	1	US-10-310-914A-756964	Sequence 756964,	1533	16.4	0.6	19	1	US-10-310-914A-943125	Sequence 943125,
1461	16.4	0.6	18	1	US-10-310-914A-756965	Sequence 756965,	1534	16.4	0.6	19	1	US-10-310-914A-954522	Sequence 954522,
1462	16.4	0.6	18	1	US-10-310-914A-756966	Sequence 756966,	1535	16.4	0.6	19	1	US-10-310-914A-969216	Sequence 969216,
1463	16.4	0.6	18	1	US-10-310-914A-795826	Sequence 795826,	c1536	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,
c1464	16.4	0.6	18	1	US-10-310-914A-79757	Sequence 79757,	c1537	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,
c1465	16.4	0.6	18	1	US-10-310-914A-79758	Sequence 79758,	1538	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,
c1466	16.4	0.6	18	1	US-10-310-914A-79763	Sequence 79763,	c1539	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,
c1467	16.4	0.6	18	1	US-10-310-914A-79764	Sequence 79764,	1540	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,
c1468	16.4	0.6	18	1	US-10-310-914A-812717	Sequence 812717,	1541	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,
c1469	16.4	0.6	18	1	US-10-310-914A-858356	Sequence 858356,	1542	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,
1470	16.4	0.6	18	1	US-10-310-914A-88232	Sequence 88232,	c1543	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,
1471	16.4	0.6	18	1	US-10-310-914A-891188	Sequence 891188,	c1544	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,
1472	16.4	0.6	18	1	US-10-310-914A-895585	Sequence 895585,	c1545	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,
c1473	16.4	0.6	18	1	US-10-310-914A-899514	Sequence 899514,	1546	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,
c1474	16.4	0.6	18	1	US-10-310-914A-899515	Sequence 899515,	c1547	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,
1475	16.4	0.6	18	1	US-10-310-914A-900556	Sequence 900556,	c1548	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,
1476	16.4	0.6	18	1	US-10-310-914A-924547	Sequence 924547,	c1549	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,
c1477	16.4	0.6	18	1	US-10-310-914A-947622	Sequence 947622,	1550	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,
c1478	16.4	0.6	18	1	US-10-310-914A-950350	Sequence 950350,	c1551	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,
c1479	16.4	0.6	18	1	US-10-310-914A-950350	Sequence 950350,	c1552	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,
1480	16.4	0.6	18	1	US-10-310-914A-967163	Sequence 967163,	1553	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,
c1481	16.4	0.6	18	1	US-10-310-914A-969291	Sequence 969291,	1554	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,
1482	16.4	0.6	19	1	US-10-310-914A-1030604	Sequence 1030604,	1555	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,
1483	16.4	0.6	19	1	US-10-310-914A-1033921	Sequence 1033921,	1556	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,
c1484	16.4	0.6	19	1	US-10-310-914A-103496	Sequence 103496,	1557	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,
1485	16.4	0.6	19	1	US-10-310-914A-112331	Sequence 112331,	1558	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,
1486	16.4	0.6	19	1	US-10-310-914A-112332	Sequence 112332,	1559	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,
1487	16.4	0.6	19	1	US-10-310-914A-112333	Sequence 112333,	1560	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,
1488	16.4	0.6	19	1	US-10-310-914A-112755	Sequence 112755,	1561	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,
c1489	16.4	0.6	19	1	US-10-310-914A-1169107	Sequence 1169107,	1562	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,
1490	16.4	0.6	19	1	US-10-310-914A-1198875	Sequence 1198875,	1563	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,
c1491	16.4	0.6	19	1	US-10-310-914A-120331	Sequence 120331,	c1564	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,
1492	16.4	0.6	19	1	US-10-310-914A-120602	Sequence 120602,	c1565	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,
1493	16.4	0.6	19	1	US-10-310-914A-1232407	Sequence 1232407,	1566	16.4	0.6	19	1	US-10-310-914A-969276	Sequence 969276,

1567	16.4	0.6	19	1	US-11-083-784-498078	Sequence 498078,	1640	16.4	0.6	20	1	US-10-310-914A-368094	Sequence 368094,
1568	16.4	0.6	19	1	US-11-083-784-54084	Sequence 54084, A	c1641	16.4	0.6	20	1	US-10-310-914A-445197	Sequence 445197,
c1569	16.4	0.6	19	1	US-11-083-784-567035	Sequence 567035,	1642	16.4	0.6	20	1	US-10-310-914A-452201	Sequence 452201,
c1570	16.4	0.6	19	1	US-11-083-784-567079	Sequence 567079,	c1643	16.4	0.6	20	1	US-10-310-914A-459531	Sequence 459531,
1571	16.4	0.6	19	1	US-11-083-784-63023	Sequence 63023, A	1644	16.4	0.6	20	1	US-10-310-914A-465760	Sequence 465760,
1572	16.4	0.6	19	1	US-11-083-784-63123	Sequence 63123, A	c1645	16.4	0.6	20	1	US-10-310-914A-500074	Sequence 500074,
1573	16.4	0.6	19	1	US-11-083-784-760769	Sequence 760769,	c1646	16.4	0.6	20	1	US-10-310-914A-548427	Sequence 548427,
1574	16.4	0.6	19	1	US-11-083-784-86982	Sequence 86982, A	1647	16.4	0.6	20	1	US-10-310-914A-582929	Sequence 582929,
1575	16.4	0.6	19	1	US-11-083-784-87077	Sequence 87077, A	c1648	16.4	0.6	20	1	US-10-310-914A-590223	Sequence 590223,
1576	16.4	0.6	19	1	US-11-083-784-87182	Sequence 87182, A	c1649	16.4	0.6	20	1	US-10-310-914A-590321	Sequence 590321,
1577	16.4	0.6	19	1	US-11-083-784-87280	Sequence 87280, A	1650	16.4	0.6	20	1	US-10-310-914A-617314	Sequence 617314,
c1578	16.4	0.6	19	1	US-11-083-784-920665	Sequence 920665,	1651	16.4	0.6	20	1	US-10-310-914A-684699	Sequence 684699,
c1579	16.4	0.6	19	1	US-11-083-784-920695	Sequence 920695,	1652	16.4	0.6	20	1	US-10-310-914A-689723	Sequence 689723,
1580	16.4	0.6	19	1	US-11-083-784-927675	Sequence 927675,	c1653	16.4	0.6	20	1	US-10-310-914A-700721	Sequence 700721,
c1581	16.4	0.6	19	1	US-11-083-784-991243	Sequence 991243,	c1654	16.4	0.6	20	1	US-10-310-914A-743434	Sequence 743434,
c1582	16.4	0.6	19	1	US-11-101-244-1147586	Sequence 1147586,	1655	16.4	0.6	20	1	US-10-310-914A-743562	Sequence 743562,
1583	16.4	0.6	19	1	US-11-101-244-1168869	Sequence 1168869,	1656	16.4	0.6	20	1	US-10-310-914A-913582	Sequence 913582,
c1584	16.4	0.6	19	1	US-11-101-244-1172782	Sequence 1172782,	c1657	16.4	0.6	20	1	US-10-310-914A-913582	Sequence 913582,
c1585	16.4	0.6	19	1	US-11-101-244-1172799	Sequence 1172799,	1658	16.4	0.6	18	1	US-10-310-914A-911324	Sequence 911324,
1586	16.4	0.6	19	1	US-11-101-244-1183864	Sequence 1183864,	1659	16.4	0.6	18	1	US-10-310-914A-927977	Sequence 927977,
1587	16.4	0.6	19	1	US-11-101-244-1244220	Sequence 1244220,	1660	16.4	0.6	18	1	US-10-310-914A-938097	Sequence 938097,
c1588	16.4	0.6	19	1	US-11-101-244-1254185	Sequence 1254185,	1661	16.4	0.6	18	1	US-10-310-914A-939227	Sequence 939227,
c1589	16.4	0.6	19	1	US-11-101-244-1317157	Sequence 1317157,	1662	16.4	0.6	18	1	US-10-310-914A-939966	Sequence 939966,
c1590	16.4	0.6	19	1	US-11-101-244-1385132	Sequence 1385132,	c1663	16.4	0.6	18	1	US-10-310-914A-936773	Sequence 936773,
1591	16.4	0.6	19	1	US-11-101-244-1392852	Sequence 1392852,	1664	16.4	0.6	18	1	US-10-310-914A-944397	Sequence 944397,
c1592	16.4	0.6	19	1	US-11-101-244-1421921	Sequence 1421921,	c1665	16.4	0.6	18	1	US-10-310-914A-950481	Sequence 950481,
c1593	16.4	0.6	19	1	US-11-101-244-1425091	Sequence 1425091,	c1666	16.4	0.6	18	1	US-10-310-914A-960165	Sequence 960165,
c1594	16.4	0.6	19	1	US-11-101-244-1449576	Sequence 1449576,	1667	16.4	0.6	18	1	US-10-310-914A-991194	Sequence 991194,
1595	16.4	0.6	19	1	US-11-101-244-1568568	Sequence 1568568,	c1668	16.4	0.6	19	1	US-10-310-914A-1006034	Sequence 1006034,
c1596	16.4	0.6	19	1	US-11-101-244-1583419	Sequence 1583419,	c1669	16.4	0.6	19	1	US-10-310-914A-1041086	Sequence 1041086,
c1597	16.4	0.6	19	1	US-11-101-244-229687	Sequence 229687,	1670	16.4	0.6	19	1	US-10-310-914A-1304666	Sequence 1304666,
1598	16.4	0.6	19	1	US-11-101-244-266141	Sequence 266141,	c1671	16.4	0.6	19	1	US-10-310-914A-186952	Sequence 186952,
1599	16.4	0.6	19	1	US-11-101-244-266149	Sequence 266149,	c1672	16.4	0.6	19	1	US-10-310-914A-545974	Sequence 545974,
1600	16.4	0.6	19	1	US-11-101-244-266220	Sequence 266220,	c1673	16.4	0.6	19	1	US-10-310-914A-609252	Sequence 609252,
1601	16.4	0.6	19	1	US-11-101-244-266222	Sequence 266222,	1674	16.4	0.6	19	1	US-10-310-914A-847630	Sequence 847630,
1602	16.4	0.6	19	1	US-11-101-244-266274	Sequence 266274,	1675	16.4	0.6	19	1	US-11-083-784-1334940	Sequence 1334940,
1603	16.4	0.6	19	1	US-11-101-244-266286	Sequence 266286,	1676	16.4	0.6	19	1	US-11-083-784-1581015	Sequence 1581015,
1604	16.4	0.6	19	1	US-11-101-244-266286	Sequence 266286,	1677	16.4	0.6	19	1	US-11-083-784-1581186	Sequence 1581186,
1605	16.4	0.6	19	1	US-11-101-244-266307	Sequence 266307,	1678	16.4	0.6	19	1	US-11-083-784-1581292	Sequence 1581292,
1606	16.4	0.6	19	1	US-11-101-244-266309	Sequence 266309,	c1679	16.4	0.6	19	1	US-11-083-784-239555	Sequence 239555,
1607	16.4	0.6	19	1	US-11-101-244-266343	Sequence 266343,	c1680	16.4	0.6	19	1	US-11-083-784-33015	Sequence 33015, A
1608	16.4	0.6	19	1	US-11-101-244-347887	Sequence 347887,	1681	16.4	0.6	19	1	US-11-083-784-421587	Sequence 421587,
c1609	16.4	0.6	19	1	US-11-101-244-35218	Sequence 35218, A	1682	16.4	0.6	19	1	US-11-083-784-421633	Sequence 421633,
c1610	16.4	0.6	19	1	US-11-101-244-357323	Sequence 357323,	1683	16.4	0.6	19	1	US-11-083-784-440386	Sequence 440386,
1611	16.4	0.6	19	1	US-11-101-244-448993	Sequence 448993,	1684	16.4	0.6	19	1	US-11-083-784-440392	Sequence 440392,
1612	16.4	0.6	19	1	US-11-101-244-4498078	Sequence 4498078,	1685	16.4	0.6	19	1	US-11-083-784-546614	Sequence 546614,
1613	16.4	0.6	19	1	US-11-101-244-54084	Sequence 54084, A	c1686	16.4	0.6	19	1	US-11-083-784-567038	Sequence 567038,
c1614	16.4	0.6	19	1	US-11-101-244-567035	Sequence 567035,	1687	16.4	0.6	19	1	US-11-083-784-599154	Sequence 599154,
c1615	16.4	0.6	19	1	US-11-101-244-567079	Sequence 567079,	1688	16.4	0.6	19	1	US-11-083-784-599325	Sequence 599325,
1616	16.4	0.6	19	1	US-11-101-244-63023	Sequence 63023, A	1689	16.4	0.6	19	1	US-11-083-784-599431	Sequence 599431,
1617	16.4	0.6	19	1	US-11-101-244-63123	Sequence 63123, A	c1690	16.4	0.6	19	1	US-11-083-784-789910	Sequence 789910,
1618	16.4	0.6	19	1	US-11-101-244-760769	Sequence 760769,	c1691	16.4	0.6	19	1	US-11-083-784-794269	Sequence 794269,
1619	16.4	0.6	19	1	US-11-101-244-86982	Sequence 86982, A	c1692	16.4	0.6	19	1	US-11-083-784-868122	Sequence 868122,
1620	16.4	0.6	19	1	US-11-101-244-87077	Sequence 87077, A	1693	16.4	0.6	19	1	US-11-101-244-1334940	Sequence 1334940,
1621	16.4	0.6	19	1	US-11-101-244-87182	Sequence 87182, A	1694	16.4	0.6	19	1	US-11-101-244-1581015	Sequence 1581015,
1622	16.4	0.6	19	1	US-11-101-244-87280	Sequence 87280, A	1695	16.4	0.6	19	1	US-11-101-244-1581186	Sequence 1581186,
c1623	16.4	0.6	19	1	US-11-101-244-920665	Sequence 920665,	1696	16.4	0.6	19	1	US-11-101-244-1581292	Sequence 1581292,
c1624	16.4	0.6	19	1	US-11-101-244-920695	Sequence 920695,	c1697	16.4	0.6	19	1	US-11-101-244-239555	Sequence 239555,
1625	16.4	0.6	19	1	US-11-101-244-927675	Sequence 927675,	c1698	16.4	0.6	19	1	US-11-101-244-33015	Sequence 33015, A
c1626	16.4	0.6	19	1	US-11-101-244-991243	Sequence 991243,	1699	16.4	0.6	19	1	US-11-101-244-421587	Sequence 421587,
1627	16.4	0.6	20	1	US-10-310-914A-1003288	Sequence 1003288,	1700	16.4	0.6	19	1	US-11-101-244-421633	Sequence 421633,
c1628	16.4	0.6	20	1	US-10-310-914A-1006035	Sequence 1006035,	1701	16.4	0.6	19	1	US-11-101-244-440386	Sequence 440386,
1629	16.4	0.6	20	1	US-10-310-914A-1074905	Sequence 1074905,	1702	16.4	0.6	19	1	US-11-101-244-440392	Sequence 440392,
c1630	16.4	0.6	20	1	US-10-310-914A-1295118	Sequence 1295118,	1703	16.4	0.6	19	1	US-11-101-244-546614	Sequence 546614,
c1631	16.4	0.6	20	1	US-10-310-914A-1319113	Sequence 1319113,	c1704	16.4	0.6	19	1	US-11-101-244-567038	Sequence 567038,
1632	16.4	0.6	20	1	US-10-310-914A-1324242	Sequence 1324242,	1705	16.4	0.6	19	1	US-11-101-244-599154	Sequence 599154,
c1633	16.4	0.6	20	1	US-10-310-914A-180440	Sequence 180440,	1706	16.4	0.6	19	1	US-11-101-244-599325	Sequence 599325,
1634	16.4	0.6	20	1	US-10-310-914A-191773	Sequence 191773,	1707	16.4	0.6	19	1	US-11-101-244-599431	Sequence 599431,
1635	16.4	0.6	20	1	US-10-310-914A-219249	Sequence 219249,	c1708	16.4	0.6	19	1	US-11-101-244-789910	Sequence 789910,
1636	16.4	0.6	20	1	US-10-310-914A-221907	Sequence 221907,	c1709	16.4	0.6	19	1	US-11-101-244-794269	Sequence 794269,
1637	16.4	0.6	20	1	US-10-310-914A-282991	Sequence 282991,	c1710	16.4	0.6	19	1	US-11-101-244-868122	Sequence 868122,
c1638	16.4	0.6	20	1	US-10-310-914A-307079	Sequence 307079,	c1711	16.4	0.6	20	1	US-10-310-914A-1039296	Sequence 1039296,
c1639	16.4	0.6	20	1	US-10-310-914A-333297	Sequence 333297,	c1712	16.4	0.6	20	1	US-10-310-914A-1041125	Sequence 1041125,

c1713	16	0.6	20	1	US-10-310-914A-148812	Sequence 148812,	c1786	15.8	0.6	19	1	US-10-310-914A-1320883	Sequence 1320883,
1714	16	0.6	20	1	US-10-310-914A-308969	Sequence 308969,	1787	15.8	0.6	19	1	US-10-310-914A-1338144	Sequence 1338144,
1715	16	0.6	20	1	US-10-310-914A-445670	Sequence 445670,	1788	15.8	0.6	19	1	US-10-310-914A-1340749	Sequence 1340749,
1716	16	0.6	20	1	US-10-310-914A-45028	Sequence 45028, A	1789	15.8	0.6	19	1	US-10-310-914A-1343670	Sequence 1343670,
c1717	16	0.6	20	1	US-10-310-914A-550500	Sequence 550500,	c1790	15.8	0.6	19	1	US-10-310-914A-1344631	Sequence 1344631,
c1718	16	0.6	20	1	US-10-310-914A-609359	Sequence 609359,	c1791	15.8	0.6	19	1	US-10-310-914A-1352034	Sequence 1352034,
c1719	16	0.6	20	1	US-10-310-914A-609290	Sequence 609290,	c1792	15.8	0.6	19	1	US-10-310-914A-1376267	Sequence 1376267,
1720	16	0.6	20	1	US-10-310-914A-66240	Sequence 66240, A	c1793	15.8	0.6	19	1	US-10-310-914A-1386495	Sequence 1386495,
1721	16	0.6	20	1	US-10-310-914A-66243	Sequence 66243, A	1794	15.8	0.6	19	1	US-10-310-914A-145998	Sequence 145998,
1722	16	0.6	20	1	US-10-310-914A-696298	Sequence 696298,	c1795	15.8	0.6	19	1	US-10-310-914A-156004	Sequence 156004,
c1723	16	0.6	20	1	US-10-310-914A-929313	Sequence 929313,	c1796	15.8	0.6	19	1	US-10-310-914A-156029	Sequence 156029,
c1724	16	0.6	20	1	US-10-310-914A-956780	Sequence 956780,	c1797	15.8	0.6	19	1	US-10-310-914A-157290	Sequence 157290,
1725	16	0.6	24	1	US-10-310-914A-1340165	Sequence 1340165,	c1798	15.8	0.6	19	1	US-10-310-914A-158706	Sequence 158706,
c1726	15.8	0.6	19	1	US-10-310-914A-1001537	Sequence 1001537,	1799	15.8	0.6	19	1	US-10-310-914A-159502	Sequence 159502,
1727	15.8	0.6	19	1	US-10-310-914A-1008712	Sequence 1008712,	c1800	15.8	0.6	19	1	US-10-310-914A-179122	Sequence 179122,
c1728	15.8	0.6	19	1	US-10-310-914A-1008725	Sequence 1008725,	c1801	15.8	0.6	19	1	US-10-310-914A-180973	Sequence 180973,
c1729	15.8	0.6	19	1	US-10-310-914A-1016268	Sequence 1016268,	c1802	15.8	0.6	19	1	US-10-310-914A-180974	Sequence 180974,
c1730	15.8	0.6	19	1	US-10-310-914A-102444	Sequence 102444,	1803	15.8	0.6	19	1	US-10-310-914A-182481	Sequence 182481,
1731	15.8	0.6	19	1	US-10-310-914A-1039933	Sequence 1039933,	1804	15.8	0.6	19	1	US-10-310-914A-182482	Sequence 182482,
1732	15.8	0.6	19	1	US-10-310-914A-1039934	Sequence 1039934,	c1805	15.8	0.6	19	1	US-10-310-914A-190210	Sequence 190210,
1733	15.8	0.6	19	1	US-10-310-914A-1039937	Sequence 1039937,	c1806	15.8	0.6	19	1	US-10-310-914A-197763	Sequence 197763,
c1734	15.8	0.6	19	1	US-10-310-914A-1065869	Sequence 1065869,	c1807	15.8	0.6	19	1	US-10-310-914A-197764	Sequence 197764,
c1735	15.8	0.6	19	1	US-10-310-914A-1073857	Sequence 1073857,	c1808	15.8	0.6	19	1	US-10-310-914A-197782	Sequence 197782,
1736	15.8	0.6	19	1	US-10-310-914A-1074616	Sequence 1074616,	1809	15.8	0.6	19	1	US-10-310-914A-205387	Sequence 205387,
1737	15.8	0.6	19	1	US-10-310-914A-1074617	Sequence 1074617,	c1810	15.8	0.6	19	1	US-10-310-914A-214539	Sequence 214539,
1738	15.8	0.6	19	1	US-10-310-914A-107710	Sequence 107710,	1811	15.8	0.6	19	1	US-10-310-914A-221944	Sequence 221944,
c1739	15.8	0.6	19	1	US-10-310-914A-1088228	Sequence 1088228,	c1812	15.8	0.6	19	1	US-10-310-914A-223599	Sequence 223599,
c1740	15.8	0.6	19	1	US-10-310-914A-1090784	Sequence 1090784,	c1813	15.8	0.6	19	1	US-10-310-914A-228962	Sequence 228962,
c1741	15.8	0.6	19	1	US-10-310-914A-1101765	Sequence 1101765,	1814	15.8	0.6	19	1	US-10-310-914A-236445	Sequence 236445,
1742	15.8	0.6	19	1	US-10-310-914A-1103377	Sequence 1103377,	c1815	15.8	0.6	19	1	US-10-310-914A-238173	Sequence 238173,
1743	15.8	0.6	19	1	US-10-310-914A-1112657	Sequence 1112657,	c1816	15.8	0.6	19	1	US-10-310-914A-241036	Sequence 241036,
c1744	15.8	0.6	19	1	US-10-310-914A-1115149	Sequence 1115149,	c1817	15.8	0.6	19	1	US-10-310-914A-241820	Sequence 241820,
1745	15.8	0.6	19	1	US-10-310-914A-1115149	Sequence 1115149,	c1818	15.8	0.6	19	1	US-10-310-914A-243582	Sequence 243582,
1746	15.8	0.6	19	1	US-10-310-914A-111734	Sequence 111734,	1819	15.8	0.6	19	1	US-10-310-914A-253769	Sequence 253769,
1747	15.8	0.6	19	1	US-10-310-914A-1129502	Sequence 1129502,	1820	15.8	0.6	19	1	US-10-310-914A-253776	Sequence 253776,
1748	15.8	0.6	19	1	US-10-310-914A-1130895	Sequence 1130895,	c1821	15.8	0.6	19	1	US-10-310-914A-257947	Sequence 257947,
1749	15.8	0.6	19	1	US-10-310-914A-1145489	Sequence 1145489,	c1822	15.8	0.6	19	1	US-10-310-914A-262258	Sequence 262258,
1750	15.8	0.6	19	1	US-10-310-914A-1146228	Sequence 1146228,	1823	15.8	0.6	19	1	US-10-310-914A-270233	Sequence 270233,
c1751	15.8	0.6	19	1	US-10-310-914A-1152463	Sequence 1152463,	1824	15.8	0.6	19	1	US-10-310-914A-272297	Sequence 272297,
c1752	15.8	0.6	19	1	US-10-310-914A-115351	Sequence 115351,	c1825	15.8	0.6	19	1	US-10-310-914A-276546	Sequence 276546,
1753	15.8	0.6	19	1	US-10-310-914A-1157587	Sequence 1157587,	1826	15.8	0.6	19	1	US-10-310-914A-294432	Sequence 294432,
1754	15.8	0.6	19	1	US-10-310-914A-1157687	Sequence 1157687,	1827	15.8	0.6	19	1	US-10-310-914A-294597	Sequence 294597,
1755	15.8	0.6	19	1	US-10-310-914A-117095	Sequence 117095,	1828	15.8	0.6	19	1	US-10-310-914A-294780	Sequence 294780,
c1756	15.8	0.6	19	1	US-10-310-914A-117107	Sequence 117107,	1829	15.8	0.6	19	1	US-10-310-914A-294964	Sequence 294964,
c1757	15.8	0.6	19	1	US-10-310-914A-118136	Sequence 118136,	1830	15.8	0.6	19	1	US-10-310-914A-295126	Sequence 295126,
c1758	15.8	0.6	19	1	US-10-310-914A-1211676	Sequence 1211676,	c1831	15.8	0.6	19	1	US-10-310-914A-295293	Sequence 295293,
c1759	15.8	0.6	19	1	US-10-310-914A-1211677	Sequence 1211677,	1832	15.8	0.6	19	1	US-10-310-914A-295447	Sequence 295447,
c1760	15.8	0.6	19	1	US-10-310-914A-1232477	Sequence 1232477,	1833	15.8	0.6	19	1	US-10-310-914A-295599	Sequence 295599,
c1761	15.8	0.6	19	1	US-10-310-914A-124050	Sequence 124050,	1834	15.8	0.6	19	1	US-10-310-914A-295911	Sequence 295911,
1762	15.8	0.6	19	1	US-10-310-914A-1244767	Sequence 1244767,	1835	15.8	0.6	19	1	US-10-310-914A-296087	Sequence 296087,
c1763	15.8	0.6	19	1	US-10-310-914A-1249498	Sequence 1249498,	1836	15.8	0.6	19	1	US-10-310-914A-296265	Sequence 296265,
1764	15.8	0.6	19	1	US-10-310-914A-1256056	Sequence 1256056,	1837	15.8	0.6	19	1	US-10-310-914A-296421	Sequence 296421,
c1765	15.8	0.6	19	1	US-10-310-914A-1259078	Sequence 1259078,	1838	15.8	0.6	19	1	US-10-310-914A-296577	Sequence 296577,
c1766	15.8	0.6	19	1	US-10-310-914A-1263402	Sequence 1263402,	1839	15.8	0.6	19	1	US-10-310-914A-296736	Sequence 296736,
1767	15.8	0.6	19	1	US-10-310-914A-1263517	Sequence 1263517,	1840	15.8	0.6	19	1	US-10-310-914A-296897	Sequence 296897,
c1768	15.8	0.6	19	1	US-10-310-914A-1263711	Sequence 1263711,	1841	15.8	0.6	19	1	US-10-310-914A-297053	Sequence 297053,
c1769	15.8	0.6	19	1	US-10-310-914A-1263711	Sequence 1263711,	1842	15.8	0.6	19	1	US-10-310-914A-297210	Sequence 297210,
c1770	15.8	0.6	19	1	US-10-310-914A-1263744	Sequence 1263744,	1843	15.8	0.6	19	1	US-10-310-914A-297370	Sequence 297370,
c1771	15.8	0.6	19	1	US-10-310-914A-1263745	Sequence 1263745,	1844	15.8	0.6	19	1	US-10-310-914A-297553	Sequence 297553,
c1772	15.8	0.6	19	1	US-10-310-914A-1263746	Sequence 1263746,	1845	15.8	0.6	19	1	US-10-310-914A-297715	Sequence 297715,
c1773	15.8	0.6	19	1	US-10-310-914A-1276592	Sequence 1276592,	1846	15.8	0.6	19	1	US-10-310-914A-297873	Sequence 297873,
c1774	15.8	0.6	19	1	US-10-310-914A-1278586	Sequence 1278586,	1847	15.8	0.6	19	1	US-10-310-914A-298169	Sequence 298169,
c1775	15.8	0.6	19	1	US-10-310-914A-1281579	Sequence 1281579,	c1848	15.8	0.6	19	1	US-10-310-914A-305897	Sequence 305897,
c1776	15.8	0.6	19	1	US-10-310-914A-1281580	Sequence 1281580,	1849	15.8	0.6	19	1	US-10-310-914A-316078	Sequence 316078,
c1777	15.8	0.6	19	1	US-10-310-914A-1283622	Sequence 1283622,	c1850	15.8	0.6	19	1	US-10-310-914A-320872	Sequence 320872,
1778	15.8	0.6	19	1	US-10-310-914A-1296646	Sequence 1296646,	c1851	15.8	0.6	19	1	US-10-310-914A-320873	Sequence 320873,
1779	15.8	0.6	19	1	US-10-310-914A-1296647	Sequence 1296647,	c1852	15.8	0.6	19	1	US-10-310-914A-324416	Sequence 324416,
c1780	15.8	0.6	19	1	US-10-310-914A-1299246	Sequence 1299246,	c1853	15.8	0.6	19	1	US-10-310-914A-324417	Sequence 324417,
c1781	15.8	0.6	19	1	US-10-310-914A-129969	Sequence 129969,	1854	15.8	0.6	19	1	US-10-310-914A-326523	Sequence 326523,
c1782	15.8	0.6	19	1	US-10-310-914A-1303359	Sequence 1303359,	c1855	15.8	0.6	19	1	US-10-310-914A-329260	Sequence 329260,
c1783	15.8	0.6	19	1	US-10-310-914A-1306553	Sequence 1306553,	c1856	15.8	0.6	19	1	US-10-310-914A-338585	Sequence 338585,
c1784	15.8	0.6	19	1	US-10-310-914A-1310928	Sequence 1310928,	1857	15.8	0.6	19	1	US-10-310-914A-344414	Sequence 344414,
c1785	15.8	0.6	19	1	US-10-310-914A-1310953	Sequence 1310953,	c1858	15.8	0.6	19	1	US-10-310-914A-344583	Sequence 344583,

c1859	15.8	0.6	19	1	US-10-310-914A-346568	Sequence 346568,	1932	15.8	0.6	19	1	US-10-310-914A-821949	Sequence 821949,
1860	15.8	0.6	19	1	US-10-310-914A-353464	Sequence 353464,	1933	15.8	0.6	19	1	US-10-310-914A-82387	Sequence 82387, A
c1861	15.8	0.6	19	1	US-10-310-914A-374266	Sequence 374266,	c1934	15.8	0.6	19	1	US-10-310-914A-828702	Sequence 828702,
c1862	15.8	0.6	19	1	US-10-310-914A-374337	Sequence 374337,	1935	15.8	0.6	19	1	US-10-310-914A-831663	Sequence 831663,
c1863	15.8	0.6	19	1	US-10-310-914A-397057	Sequence 397057,	1936	15.8	0.6	19	1	US-10-310-914A-831671	Sequence 831671,
c1864	15.8	0.6	19	1	US-10-310-914A-398379	Sequence 398379,	c1937	15.8	0.6	19	1	US-10-310-914A-837494	Sequence 837494,
c1865	15.8	0.6	19	1	US-10-310-914A-399084	Sequence 399084,	1938	15.8	0.6	19	1	US-10-310-914A-839758	Sequence 839758,
c1866	15.8	0.6	19	1	US-10-310-914A-399583	Sequence 399583,	1939	15.8	0.6	19	1	US-10-310-914A-839775	Sequence 839775,
c1867	15.8	0.6	19	1	US-10-310-914A-414657	Sequence 414657,	1940	15.8	0.6	19	1	US-10-310-914A-839851	Sequence 839851,
c1868	15.8	0.6	19	1	US-10-310-914A-416480	Sequence 416480,	c1941	15.8	0.6	19	1	US-10-310-914A-839861	Sequence 839861,
c1869	15.8	0.6	19	1	US-10-310-914A-416481	Sequence 416481,	c1942	15.8	0.6	19	1	US-10-310-914A-84849	Sequence 84849, A
c1870	15.8	0.6	19	1	US-10-310-914A-435446	Sequence 425446,	c1943	15.8	0.6	19	1	US-10-310-914A-872019	Sequence 872019,
c1871	15.8	0.6	19	1	US-10-310-914A-43037	Sequence 43037, A	c1944	15.8	0.6	19	1	US-10-310-914A-875911	Sequence 875911,
c1872	15.8	0.6	19	1	US-10-310-914A-434967	Sequence 434967,	1945	15.8	0.6	19	1	US-10-310-914A-878407	Sequence 878407,
c1873	15.8	0.6	19	1	US-10-310-914A-441166	Sequence 441166,	1946	15.8	0.6	19	1	US-10-310-914A-882338	Sequence 882338, A
c1874	15.8	0.6	19	1	US-10-310-914A-443893	Sequence 443893,	c1947	15.8	0.6	19	1	US-10-310-914A-894312	Sequence 894312,
c1875	15.8	0.6	19	1	US-10-310-914A-456402	Sequence 456402,	c1948	15.8	0.6	19	1	US-10-310-914A-89446	Sequence 89446, A
c1876	15.8	0.6	19	1	US-10-310-914A-456403	Sequence 456403,	1949	15.8	0.6	19	1	US-10-310-914A-900557	Sequence 900557,
c1877	15.8	0.6	19	1	US-10-310-914A-457439	Sequence 457439,	1950	15.8	0.6	19	1	US-10-310-914A-906159	Sequence 906159,
c1878	15.8	0.6	19	1	US-10-310-914A-46212	Sequence 46212, A	1951	15.8	0.6	19	1	US-10-310-914A-908424	Sequence 908424,
c1879	15.8	0.6	19	1	US-10-310-914A-463713	Sequence 463713,	c1952	15.8	0.6	19	1	US-10-310-914A-912875	Sequence 912875,
c1880	15.8	0.6	19	1	US-10-310-914A-484810	Sequence 484810,	1953	15.8	0.6	19	1	US-10-310-914A-918373	Sequence 918373,
c1881	15.8	0.6	19	1	US-10-310-914A-488226	Sequence 488226,	1954	15.8	0.6	19	1	US-10-310-914A-926053	Sequence 926053,
c1882	15.8	0.6	19	1	US-10-310-914A-496979	Sequence 496979,	c1955	15.8	0.6	19	1	US-10-310-914A-938135	Sequence 938135,
c1883	15.8	0.6	19	1	US-10-310-914A-512311	Sequence 512311,	1956	15.8	0.6	19	1	US-10-310-914A-939252	Sequence 939252,
c1884	15.8	0.6	19	1	US-10-310-914A-512689	Sequence 512689,	c1957	15.8	0.6	19	1	US-10-310-914A-939252	Sequence 939252,
c1885	15.8	0.6	19	1	US-10-310-914A-519022	Sequence 519022,	c1958	15.8	0.6	19	1	US-10-310-914A-947827	Sequence 947827,
c1886	15.8	0.6	19	1	US-10-310-914A-519453	Sequence 519453,	c1959	15.8	0.6	19	1	US-10-310-914A-972982	Sequence 972982,
c1887	15.8	0.6	19	1	US-10-310-914A-522949	Sequence 522949,	c1960	15.8	0.6	19	1	US-10-310-914A-974494	Sequence 974494,
c1888	15.8	0.6	19	1	US-10-310-914A-526128	Sequence 526128,	c1961	15.8	0.6	19	1	US-10-310-914A-982368	Sequence 982368,
c1889	15.8	0.6	19	1	US-10-310-914A-536232	Sequence 536232,	c1962	15.8	0.6	19	1	US-10-310-914A-983797	Sequence 983797,
1890	15.8	0.6	19	1	US-10-310-914A-536251	Sequence 536251,	c1963	15.8	0.6	19	1	US-10-310-914A-984218	Sequence 984218,
c1891	15.8	0.6	19	1	US-10-310-914A-539960	Sequence 539960,	c1964	15.8	0.6	19	1	US-10-310-914A-987281	Sequence 987281,
c1892	15.8	0.6	19	1	US-10-310-914A-545415	Sequence 545415,	c1965	15.8	0.6	19	1	US-10-310-914A-988101	Sequence 988101,
c1893	15.8	0.6	19	1	US-10-310-914A-549685	Sequence 549685,	1966	15.8	0.6	19	1	US-10-310-914A-992030	Sequence 992030,
c1894	15.8	0.6	19	1	US-10-310-914A-556790	Sequence 556790,	c1967	15.8	0.6	19	1	US-10-310-914A-999090	Sequence 999090,
c1895	15.8	0.6	19	1	US-10-310-914A-564618	Sequence 564618,	c1968	15.8	0.6	19	1	US-10-923-476A-141	Sequence 141, Appl
c1896	15.8	0.6	19	1	US-10-310-914A-566727	Sequence 566727,	1969	15.8	0.6	19	1	US-11-043-752-3724	Sequence 66, Appl
c1897	15.8	0.6	19	1	US-10-310-914A-576649	Sequence 576649,	c1970	15.8	0.6	19	1	US-11-043-752-3724	Sequence 3724, Ap
c1898	15.8	0.6	19	1	US-10-310-914A-587649	Sequence 587649,	c1971	15.8	0.6	19	1	US-11-054-047-136	Sequence 136, Appl
c1899	15.8	0.6	19	1	US-10-310-914A-617241	Sequence 617241,	1972	15.8	0.6	19	1	US-11-054-047-8	Sequence 8, Appli
c1900	15.8	0.6	19	1	US-10-310-914A-62890	Sequence 62890, A	c1973	15.8	0.6	19	1	US-11-083-784-1000332	Sequence 1000332,
c1901	15.8	0.6	19	1	US-10-310-914A-629657	Sequence 629657,	c1974	15.8	0.6	19	1	US-11-083-784-1029585	Sequence 1029585,
c1902	15.8	0.6	19	1	US-10-310-914A-632076	Sequence 632076,	c1975	15.8	0.6	19	1	US-11-083-784-1049684	Sequence 1049684,
c1903	15.8	0.6	19	1	US-10-310-914A-644736	Sequence 644736,	c1976	15.8	0.6	19	1	US-11-083-784-1053223	Sequence 1053223,
1904	15.8	0.6	19	1	US-10-310-914A-649244	Sequence 649244,	c1977	15.8	0.6	19	1	US-11-083-784-1085981	Sequence 1085981,
c1905	15.8	0.6	19	1	US-10-310-914A-649245	Sequence 649245,	c1978	15.8	0.6	19	1	US-11-083-784-1107813	Sequence 1107813,
c1906	15.8	0.6	19	1	US-10-310-914A-649494	Sequence 649494,	1979	15.8	0.6	19	1	US-11-083-784-1123421	Sequence 1123421,
c1907	15.8	0.6	19	1	US-10-310-914A-65121	Sequence 65121, A	c1980	15.8	0.6	19	1	US-11-083-784-1123994	Sequence 1123994,
c1908	15.8	0.6	19	1	US-10-310-914A-651884	Sequence 651884,	c1981	15.8	0.6	19	1	US-11-083-784-1147574	Sequence 1147574,
c1909	15.8	0.6	19	1	US-10-310-914A-657828	Sequence 657828,	c1982	15.8	0.6	19	1	US-11-083-784-1154343	Sequence 1154343,
c1910	15.8	0.6	19	1	US-10-310-914A-667226	Sequence 667226,	c1983	15.8	0.6	19	1	US-11-083-784-1170512	Sequence 1170512,
c1911	15.8	0.6	19	1	US-10-310-914A-67396	Sequence 67396, A	c1984	15.8	0.6	19	1	US-11-083-784-1172726	Sequence 1172726,
c1912	15.8	0.6	19	1	US-10-310-914A-683854	Sequence 683854,	c1985	15.8	0.6	19	1	US-11-083-784-1173797	Sequence 1173797,
c1913	15.8	0.6	19	1	US-10-310-914A-689757	Sequence 689757,	c1986	15.8	0.6	19	1	US-11-083-784-1225467	Sequence 1225467,
c1914	15.8	0.6	19	1	US-10-310-914A-696333	Sequence 696333,	c1987	15.8	0.6	19	1	US-11-083-784-1228257	Sequence 1228257,
1915	15.8	0.6	19	1	US-10-310-914A-707881	Sequence 707881,	c1988	15.8	0.6	19	1	US-11-083-784-1236220	Sequence 1236220,
c1916	15.8	0.6	19	1	US-10-310-914A-710515	Sequence 710515,	1989	15.8	0.6	19	1	US-11-083-784-1245194	Sequence 1245194,
c1917	15.8	0.6	19	1	US-10-310-914A-711944	Sequence 711944,	c1990	15.8	0.6	19	1	US-11-083-784-1245194	Sequence 1245194,
c1918	15.8	0.6	19	1	US-10-310-914A-717566	Sequence 717566,	c1991	15.8	0.6	19	1	US-11-083-784-1268922	Sequence 1268922,
c1919	15.8	0.6	19	1	US-10-310-914A-72329	Sequence 72329, A	c1992	15.8	0.6	19	1	US-11-083-784-1276053	Sequence 1276053,
c1920	15.8	0.6	19	1	US-10-310-914A-726797	Sequence 726797,	c1993	15.8	0.6	19	1	US-11-083-784-129299	Sequence 129299,
c1921	15.8	0.6	19	1	US-10-310-914A-726804	Sequence 726804,	c1994	15.8	0.6	19	1	US-11-083-784-1311791	Sequence 1311791,
c1922	15.8	0.6	19	1	US-10-310-914A-730607	Sequence 730607,	c1995	15.8	0.6	19	1	US-11-083-784-1317137	Sequence 1317137,
1923	15.8	0.6	19	1	US-10-310-914A-736445	Sequence 736445,	c1996	15.8	0.6	19	1	US-11-083-784-1357388	Sequence 1357388,
1924	15.8	0.6	19	1	US-10-310-914A-763888	Sequence 763888,	c1997	15.8	0.6	19	1	US-11-083-784-1369943	Sequence 1369943,
c1925	15.8	0.6	19	1	US-10-310-914A-768369	Sequence 768369,	c1998	15.8	0.6	19	1	US-11-083-784-1373164	Sequence 1373164,
c1926	15.8	0.6	19	1	US-10-310-914A-790488	Sequence 790488,	1999	15.8	0.6	19	1	US-11-083-784-1397330	Sequence 1397330,
c1927	15.8	0.6	19	1	US-10-310-914A-792977	Sequence 792977,	2000	15.8	0.6	19	1	US-11-083-784-1405765	Sequence 1405765,
1928	15.8	0.6	19	1	US-10-310-914A-807661	Sequence 807661,	2001	15.8	0.6	19	1	US-11-083-784-1419393	Sequence 1419393,
c1929	15.8	0.6	19	1	US-10-310-914A-815964	Sequence 815964,	c2002	15.8	0.6	19	1	US-11-083-784-1423654	Sequence 1423654,
c1930	15.8	0.6	19	1	US-10-310-914A-816483	Sequence 816483,	c2003	15.8	0.6	19	1	US-11-083-784-1430591	Sequence 1430591,
1931	15.8	0.6	19	1	US-10-310-914A-820753	Sequence 820753,	2004	15.8	0.6	19	1	US-11-083-784-1447986	Sequence 1447986,

c2005	15.8	0.6	19	1	US-11-083-784-1449588	Sequence 1449588,	2078	15.8	0.6	19	1	US-11-083-784-412596	Sequence 412596,
c2006	15.8	0.6	19	1	US-11-083-784-1477154	Sequence 1477154,	2079	15.8	0.6	19	1	US-11-083-784-412601	Sequence 412601,
c2007	15.8	0.6	19	1	US-11-083-784-1492590	Sequence 1492590,	c2080	15.8	0.6	19	1	US-11-083-784-41315	Sequence 41315, Ap
c2008	15.8	0.6	19	1	US-11-083-784-1512317	Sequence 1512317,	c2081	15.8	0.6	19	1	US-11-083-784-4177	Sequence 4177, Ap
c2009	15.8	0.6	19	1	US-11-083-784-1516022	Sequence 1516022,	c2082	15.8	0.6	19	1	US-11-083-784-417987	Sequence 417987,
c2010	15.8	0.6	19	1	US-11-083-784-152077	Sequence 152077,	c2083	15.8	0.6	19	1	US-11-083-784-425439	Sequence 425439,
c2011	15.8	0.6	19	1	US-11-083-784-1526505	Sequence 1526505,	c2084	15.8	0.6	19	1	US-11-083-784-432369	Sequence 432369,
c2012	15.8	0.6	19	1	US-11-083-784-1539097	Sequence 1539097,	2085	15.8	0.6	19	1	US-11-083-784-44688	Sequence 44688, A
c2013	15.8	0.6	19	1	US-11-083-784-1541140	Sequence 1541140,	2086	15.8	0.6	19	1	US-11-083-784-452847	Sequence 452847,
c2014	15.8	0.6	19	1	US-11-083-784-1561087	Sequence 1561087,	2087	15.8	0.6	19	1	US-11-083-784-456773	Sequence 456773,
c2015	15.8	0.6	19	1	US-11-083-784-1570627	Sequence 1570627,	c2088	15.8	0.6	19	1	US-11-083-784-458447	Sequence 458447,
c2016	15.8	0.6	19	1	US-11-083-784-184602	Sequence 184602,	c2089	15.8	0.6	19	1	US-11-083-784-458545	Sequence 458545,
c2017	15.8	0.6	19	1	US-11-083-784-217777	Sequence 217777,	2090	15.8	0.6	19	1	US-11-083-784-46564	Sequence 46564, A
c2018	15.8	0.6	19	1	US-11-083-784-22379	Sequence 22379, A	2091	15.8	0.6	19	1	US-11-083-784-496456	Sequence 496456,
c2019	15.8	0.6	19	1	US-11-083-784-228349	Sequence 228349,	2092	15.8	0.6	19	1	US-11-083-784-496508	Sequence 496508,
c2020	15.8	0.6	19	1	US-11-083-784-258220	Sequence 258220,	2093	15.8	0.6	19	1	US-11-083-784-496510	Sequence 496510,
c2021	15.8	0.6	19	1	US-11-083-784-264950	Sequence 264950,	c2094	15.8	0.6	19	1	US-11-083-784-511184	Sequence 511184,
c2022	15.8	0.6	19	1	US-11-083-784-265780	Sequence 265780,	c2095	15.8	0.6	19	1	US-11-083-784-511303	Sequence 511303,
c2023	15.8	0.6	19	1	US-11-083-784-265787	Sequence 265787,	c2096	15.8	0.6	19	1	US-11-083-784-53184	Sequence 53184, A
c2024	15.8	0.6	19	1	US-11-083-784-265799	Sequence 265799,	c2097	15.8	0.6	19	1	US-11-083-784-53283	Sequence 53283, A
c2025	15.8	0.6	19	1	US-11-083-784-265804	Sequence 265804,	2098	15.8	0.6	19	1	US-11-083-784-54059	Sequence 54059, A
c2026	15.8	0.6	19	1	US-11-083-784-265809	Sequence 265809,	c2099	15.8	0.6	19	1	US-11-083-784-561064	Sequence 561064,
c2027	15.8	0.6	19	1	US-11-083-784-265821	Sequence 265821,	2100	15.8	0.6	19	1	US-11-083-784-567450	Sequence 567450,
c2028	15.8	0.6	19	1	US-11-083-784-265848	Sequence 265848,	c2101	15.8	0.6	19	1	US-11-083-784-574829	Sequence 574829,
c2029	15.8	0.6	19	1	US-11-083-784-265880	Sequence 265880,	2102	15.8	0.6	19	1	US-11-083-784-590449	Sequence 590449,
c2030	15.8	0.6	19	1	US-11-083-784-265934	Sequence 265934,	2103	15.8	0.6	19	1	US-11-083-784-590522	Sequence 590522,
c2031	15.8	0.6	19	1	US-11-083-784-265950	Sequence 265950,	c2104	15.8	0.6	19	1	US-11-083-784-631662	Sequence 631662,
c2032	15.8	0.6	19	1	US-11-083-784-265979	Sequence 265979,	2105	15.8	0.6	19	1	US-11-083-784-644391	Sequence 644391,
c2033	15.8	0.6	19	1	US-11-083-784-265987	Sequence 265987,	2106	15.8	0.6	19	1	US-11-083-784-647143	Sequence 647143,
c2034	15.8	0.6	19	1	US-11-083-784-265991	Sequence 265991,	c2107	15.8	0.6	19	1	US-11-083-784-649664	Sequence 649664,
c2035	15.8	0.6	19	1	US-11-083-784-266003	Sequence 266003,	2108	15.8	0.6	19	1	US-11-083-784-655713	Sequence 655713,
c2036	15.8	0.6	19	1	US-11-083-784-266047	Sequence 266047,	c2109	15.8	0.6	19	1	US-11-083-784-655922	Sequence 655922, A
c2037	15.8	0.6	19	1	US-11-083-784-266078	Sequence 266078,	2110	15.8	0.6	19	1	US-11-083-784-670991	Sequence 670991,
c2038	15.8	0.6	19	1	US-11-083-784-266130	Sequence 266130,	c2111	15.8	0.6	19	1	US-11-083-784-689001	Sequence 689001,
c2039	15.8	0.6	19	1	US-11-083-784-266138	Sequence 266138,	2112	15.8	0.6	19	1	US-11-083-784-704548	Sequence 704548,
c2040	15.8	0.6	19	1	US-11-083-784-266143	Sequence 266143,	2113	15.8	0.6	19	1	US-11-083-784-732988	Sequence 732988,
c2041	15.8	0.6	19	1	US-11-083-784-266145	Sequence 266145,	2114	15.8	0.6	19	1	US-11-083-784-736252	Sequence 736252,
c2042	15.8	0.6	19	1	US-11-083-784-266148	Sequence 266148,	c2115	15.8	0.6	19	1	US-11-083-784-753557	Sequence 753557,
c2043	15.8	0.6	19	1	US-11-083-784-266148	Sequence 266148,	c2116	15.8	0.6	19	1	US-11-083-784-753652	Sequence 753652,
c2044	15.8	0.6	19	1	US-11-083-784-266198	Sequence 266198,	c2117	15.8	0.6	19	1	US-11-083-784-757354	Sequence 757354,
c2045	15.8	0.6	19	1	US-11-083-784-266208	Sequence 266208,	c2118	15.8	0.6	19	1	US-11-083-784-757458	Sequence 757458,
c2046	15.8	0.6	19	1	US-11-083-784-266215	Sequence 266215,	c2119	15.8	0.6	19	1	US-11-083-784-757562	Sequence 757562,
c2047	15.8	0.6	19	1	US-11-083-784-266228	Sequence 266228,	c2120	15.8	0.6	19	1	US-11-083-784-813399	Sequence 813399,
c2048	15.8	0.6	19	1	US-11-083-784-266233	Sequence 266233,	c2121	15.8	0.6	19	1	US-11-083-784-841312	Sequence 841312,
c2049	15.8	0.6	19	1	US-11-083-784-266234	Sequence 266234,	c2122	15.8	0.6	19	1	US-11-083-784-853052	Sequence 853052,
c2050	15.8	0.6	19	1	US-11-083-784-266243	Sequence 266243,	2123	15.8	0.6	19	1	US-11-083-784-881283	Sequence 881283,
c2051	15.8	0.6	19	1	US-11-083-784-266245	Sequence 266245,	c2124	15.8	0.6	19	1	US-11-083-784-892033	Sequence 892033,
c2052	15.8	0.6	19	1	US-11-083-784-266246	Sequence 266246,	2125	15.8	0.6	19	1	US-11-083-784-907691	Sequence 907691,
c2053	15.8	0.6	19	1	US-11-083-784-266272	Sequence 266272,	c2126	15.8	0.6	19	1	US-11-083-784-907992	Sequence 907992,
c2054	15.8	0.6	19	1	US-11-083-784-266288	Sequence 266288,	c2127	15.8	0.6	19	1	US-11-083-784-907994	Sequence 907994,
c2055	15.8	0.6	19	1	US-11-083-784-266290	Sequence 266290,	c2128	15.8	0.6	19	1	US-11-083-784-914735	Sequence 914735,
c2056	15.8	0.6	19	1	US-11-083-784-266298	Sequence 266298,	c2129	15.8	0.6	19	1	US-11-083-784-92699	Sequence 92699, A
c2057	15.8	0.6	19	1	US-11-083-784-266325	Sequence 266325,	c2130	15.8	0.6	19	1	US-11-083-784-92728	Sequence 92728, A
c2058	15.8	0.6	19	1	US-11-083-784-266327	Sequence 266327,	c2131	15.8	0.6	19	1	US-11-083-784-931272	Sequence 931272,
c2059	15.8	0.6	19	1	US-11-083-784-266342	Sequence 266342,	c2132	15.8	0.6	19	1	US-11-083-784-975201	Sequence 975201,
c2060	15.8	0.6	19	1	US-11-083-784-266367	Sequence 266367,	2133	15.8	0.6	19	1	US-11-083-784-99429	Sequence 99429, A
c2061	15.8	0.6	19	1	US-11-083-784-270184	Sequence 270184,	c2134	15.8	0.6	19	1	US-11-101-244-1000332	Sequence 1000332,
c2062	15.8	0.6	19	1	US-11-083-784-271359	Sequence 271359,	c2135	15.8	0.6	19	1	US-11-101-244-1029585	Sequence 1029585,
c2063	15.8	0.6	19	1	US-11-083-784-305036	Sequence 305036,	c2136	15.8	0.6	19	1	US-11-101-244-1049684	Sequence 1049684,
c2064	15.8	0.6	19	1	US-11-083-784-305136	Sequence 305136,	c2137	15.8	0.6	19	1	US-11-101-244-1053223	Sequence 1053223,
c2065	15.8	0.6	19	1	US-11-083-784-305233	Sequence 305233,	2138	15.8	0.6	19	1	US-11-101-244-1085981	Sequence 1085981,
c2066	15.8	0.6	19	1	US-11-083-784-305335	Sequence 305335,	c2139	15.8	0.6	19	1	US-11-101-244-1107813	Sequence 1107813,
c2067	15.8	0.6	19	1	US-11-083-784-351811	Sequence 351811,	2140	15.8	0.6	19	1	US-11-101-244-1123421	Sequence 1123421,
c2068	15.8	0.6	19	1	US-11-083-784-351910	Sequence 351910,	2141	15.8	0.6	19	1	US-11-101-244-1123994	Sequence 1123994,
c2069	15.8	0.6	19	1	US-11-083-784-351969	Sequence 351969,	c2142	15.8	0.6	19	1	US-11-101-244-1147574	Sequence 1147574,
c2070	15.8	0.6	19	1	US-11-083-784-351981	Sequence 351981,	2143	15.8	0.6	19	1	US-11-101-244-1154343	Sequence 1154343,
c2071	15.8	0.6	19	1	US-11-083-784-374845	Sequence 374845,	c2144	15.8	0.6	19	1	US-11-101-244-1170512	Sequence 1170512,
c2072	15.8	0.6	19	1	US-11-083-784-386298	Sequence 386298,	c2145	15.8	0.6	19	1	US-11-101-244-1172726	Sequence 1172726,
c2073	15.8	0.6	19	1	US-11-083-784-395666	Sequence 395666,	c2146	15.8	0.6	19	1	US-11-101-244-1173797	Sequence 1173797,
c2074	15.8	0.6	19	1	US-11-083-784-396040	Sequence 396040,	c2147	15.8	0.6	19	1	US-11-101-244-1173838	Sequence 1173838,
c2075	15.8	0.6	19	1	US-11-083-784-396071	Sequence 396071,	c2148	15.8	0.6	19	1	US-11-101-244-1225467	Sequence 1225467,
c2076	15.8	0.6	19	1	US-11-083-784-412397	Sequence 412397,	c2149	15.8	0.6	19	1	US-11-101-244-1228257	Sequence 1228257,
c2077	15.8	0.6	19	1	US-11-083-784-412402	Sequence 412402,	2150	15.8	0.6	19	1	US-11-101-244-1236220	Sequence 1236220,



c2151	15.8	0.6	19	1	US-11-101-244-1245194	Sequence 1245194,	c2224	15.8	0.6	19	1	US-11-101-244-305036	Sequence 305036,
2152	15.8	0.6	19	1	US-11-101-244-1268922	Sequence 1268922,	c2225	15.8	0.6	19	1	US-11-101-244-305136	Sequence 305136,
c2153	15.8	0.6	19	1	US-11-101-244-1276053	Sequence 1276053,	c2226	15.8	0.6	19	1	US-11-101-244-305233	Sequence 305233,
c2154	15.8	0.6	19	1	US-11-101-244-129299	Sequence 129299,	c2227	15.8	0.6	19	1	US-11-101-244-305335	Sequence 305335,
c2155	15.8	0.6	19	1	US-11-101-244-1311791	Sequence 1311791,	c2228	15.8	0.6	19	1	US-11-101-244-351811	Sequence 351811,
c2156	15.8	0.6	19	1	US-11-101-244-1317137	Sequence 1317137,	c2229	15.8	0.6	19	1	US-11-101-244-351910	Sequence 351910,
c2157	15.8	0.6	19	1	US-11-101-244-1357388	Sequence 1357388,	c2230	15.8	0.6	19	1	US-11-101-244-351969	Sequence 351969,
c2158	15.8	0.6	19	1	US-11-101-244-1369943	Sequence 1369943,	c2231	15.8	0.6	19	1	US-11-101-244-351981	Sequence 351981,
c2159	15.8	0.6	19	1	US-11-101-244-1373164	Sequence 1373164,	c2232	15.8	0.6	19	1	US-11-101-244-374845	Sequence 374845,
2160	15.8	0.6	19	1	US-11-101-244-1397330	Sequence 1397330,	2233	15.8	0.6	19	1	US-11-101-244-386298	Sequence 386298,
2161	15.8	0.6	19	1	US-11-101-244-1405765	Sequence 1405765,	2234	15.8	0.6	19	1	US-11-101-244-395666	Sequence 395666,
2162	15.8	0.6	19	1	US-11-101-244-1419393	Sequence 1419393,	c2235	15.8	0.6	19	1	US-11-101-244-396040	Sequence 396040,
c2163	15.8	0.6	19	1	US-11-101-244-1423654	Sequence 1423654,	c2236	15.8	0.6	19	1	US-11-101-244-396071	Sequence 396071,
c2164	15.8	0.6	19	1	US-11-101-244-1430591	Sequence 1430591,	2237	15.8	0.6	19	1	US-11-101-244-412397	Sequence 412397,
2165	15.8	0.6	19	1	US-11-101-244-1447986	Sequence 1447986,	2238	15.8	0.6	19	1	US-11-101-244-412402	Sequence 412402,
c2166	15.8	0.6	19	1	US-11-101-244-1449588	Sequence 1449588,	2239	15.8	0.6	19	1	US-11-101-244-412596	Sequence 412596,
c2167	15.8	0.6	19	1	US-11-101-244-1477154	Sequence 1477154,	c2240	15.8	0.6	19	1	US-11-101-244-412601	Sequence 412601,
2168	15.8	0.6	19	1	US-11-101-244-1492590	Sequence 1492590,	c2241	15.8	0.6	19	1	US-11-101-244-4135	Sequence 4135, Ap
c2169	15.8	0.6	19	1	US-11-101-244-1512317	Sequence 1512317,	c2242	15.8	0.6	19	1	US-11-101-244-4177	Sequence 4177, Ap
2170	15.8	0.6	19	1	US-11-101-244-1516022	Sequence 1516022,	c2243	15.8	0.6	19	1	US-11-101-244-417987	Sequence 417987,
c2171	15.8	0.6	19	1	US-11-101-244-152077	Sequence 152077,	c2244	15.8	0.6	19	1	US-11-101-244-425439	Sequence 425439,
c2172	15.8	0.6	19	1	US-11-101-244-152677	Sequence 152677,	c2245	15.8	0.6	19	1	US-11-101-244-432369	Sequence 432369,
2173	15.8	0.6	19	1	US-11-101-244-1526505	Sequence 1526505,	c2246	15.8	0.6	19	1	US-11-101-244-44688	Sequence 44688, A
2174	15.8	0.6	19	1	US-11-101-244-1539097	Sequence 1539097,	2247	15.8	0.6	19	1	US-11-101-244-452847	Sequence 452847,
2175	15.8	0.6	19	1	US-11-101-244-1541140	Sequence 1541140,	2248	15.8	0.6	19	1	US-11-101-244-456773	Sequence 456773,
c2176	15.8	0.6	19	1	US-11-101-244-1561087	Sequence 1561087,	c2249	15.8	0.6	19	1	US-11-101-244-458447	Sequence 458447,
2177	15.8	0.6	19	1	US-11-101-244-1570627	Sequence 1570627,	c2250	15.8	0.6	19	1	US-11-101-244-458545	Sequence 458545,
2178	15.8	0.6	19	1	US-11-101-244-184602	Sequence 184602,	2251	15.8	0.6	19	1	US-11-101-244-46564	Sequence 46564, A
2179	15.8	0.6	19	1	US-11-101-244-217777	Sequence 217777,	c2252	15.8	0.6	19	1	US-11-101-244-496456	Sequence 496456,
c2180	15.8	0.6	19	1	US-11-101-244-22379	Sequence 22379, A	2253	15.8	0.6	19	1	US-11-101-244-496508	Sequence 496508,
2181	15.8	0.6	19	1	US-11-101-244-228349	Sequence 228349,	2254	15.8	0.6	19	1	US-11-101-244-496510	Sequence 496510,
2182	15.8	0.6	19	1	US-11-101-244-228220	Sequence 228220,	c2255	15.8	0.6	19	1	US-11-101-244-511184	Sequence 511184,
2183	15.8	0.6	19	1	US-11-101-244-264950	Sequence 264950,	c2256	15.8	0.6	19	1	US-11-101-244-511303	Sequence 511303,
2184	15.8	0.6	19	1	US-11-101-244-265780	Sequence 265780,	c2257	15.8	0.6	19	1	US-11-101-244-53184	Sequence 53184, A
2185	15.8	0.6	19	1	US-11-101-244-265787	Sequence 265787,	c2258	15.8	0.6	19	1	US-11-101-244-53283	Sequence 53283, A
2186	15.8	0.6	19	1	US-11-101-244-265799	Sequence 265799,	2259	15.8	0.6	19	1	US-11-101-244-54059	Sequence 54059, A
2187	15.8	0.6	19	1	US-11-101-244-265804	Sequence 265804,	c2260	15.8	0.6	19	1	US-11-101-244-54059	Sequence 54059, A
2188	15.8	0.6	19	1	US-11-101-244-265809	Sequence 265809,	2261	15.8	0.6	19	1	US-11-101-244-561064	Sequence 561064,
2189	15.8	0.6	19	1	US-11-101-244-265821	Sequence 265821,	c2262	15.8	0.6	19	1	US-11-101-244-567450	Sequence 567450,
2190	15.8	0.6	19	1	US-11-101-244-265848	Sequence 265848,	2263	15.8	0.6	19	1	US-11-101-244-574829	Sequence 574829,
2191	15.8	0.6	19	1	US-11-101-244-265880	Sequence 265880,	c2264	15.8	0.6	19	1	US-11-101-244-590449	Sequence 590449,
2192	15.8	0.6	19	1	US-11-101-244-265934	Sequence 265934,	c2265	15.8	0.6	19	1	US-11-101-244-590522	Sequence 590522,
2193	15.8	0.6	19	1	US-11-101-244-265950	Sequence 265950,	c2266	15.8	0.6	19	1	US-11-101-244-631662	Sequence 631662,
2194	15.8	0.6	19	1	US-11-101-244-265979	Sequence 265979,	2267	15.8	0.6	19	1	US-11-101-244-644391	Sequence 644391,
2195	15.8	0.6	19	1	US-11-101-244-265987	Sequence 265987,	c2268	15.8	0.6	19	1	US-11-101-244-647143	Sequence 647143,
2196	15.8	0.6	19	1	US-11-101-244-265991	Sequence 265991,	2269	15.8	0.6	19	1	US-11-101-244-649664	Sequence 649664,
2197	15.8	0.6	19	1	US-11-101-244-266020	Sequence 266020,	c2270	15.8	0.6	19	1	US-11-101-244-655713	Sequence 655713,
2198	15.8	0.6	19	1	US-11-101-244-266047	Sequence 266047,	2271	15.8	0.6	19	1	US-11-101-244-65992	Sequence 65992, A
2199	15.8	0.6	19	1	US-11-101-244-266078	Sequence 266078,	c2272	15.8	0.6	19	1	US-11-101-244-670991	Sequence 670991,
2200	15.8	0.6	19	1	US-11-101-244-266130	Sequence 266130,	2273	15.8	0.6	19	1	US-11-101-244-689001	Sequence 689001,
2201	15.8	0.6	19	1	US-11-101-244-266138	Sequence 266138,	2274	15.8	0.6	19	1	US-11-101-244-704548	Sequence 704548,
2202	15.8	0.6	19	1	US-11-101-244-266143	Sequence 266143,	2275	15.8	0.6	19	1	US-11-101-244-732988	Sequence 732988,
2203	15.8	0.6	19	1	US-11-101-244-266145	Sequence 266145,	c2276	15.8	0.6	19	1	US-11-101-244-736252	Sequence 736252,
2204	15.8	0.6	19	1	US-11-101-244-266148	Sequence 266148,	c2277	15.8	0.6	19	1	US-11-101-244-753557	Sequence 753557,
2205	15.8	0.6	19	1	US-11-101-244-266198	Sequence 266198,	c2278	15.8	0.6	19	1	US-11-101-244-753652	Sequence 753652,
2206	15.8	0.6	19	1	US-11-101-244-266208	Sequence 266208,	c2279	15.8	0.6	19	1	US-11-101-244-757354	Sequence 757354,
2207	15.8	0.6	19	1	US-11-101-244-266215	Sequence 266215,	c2280	15.8	0.6	19	1	US-11-101-244-757562	Sequence 757562,
2208	15.8	0.6	19	1	US-11-101-244-266228	Sequence 266228,	c2281	15.8	0.6	19	1	US-11-101-244-813399	Sequence 813399,
2209	15.8	0.6	19	1	US-11-101-244-266233	Sequence 266233,	c2282	15.8	0.6	19	1	US-11-101-244-841312	Sequence 841312,
2210	15.8	0.6	19	1	US-11-101-244-266234	Sequence 266234,	c2283	15.8	0.6	19	1	US-11-101-244-853052	Sequence 853052,
2211	15.8	0.6	19	1	US-11-101-244-266243	Sequence 266243,	2284	15.8	0.6	19	1	US-11-101-244-881283	Sequence 881283,
2212	15.8	0.6	19	1	US-11-101-244-266245	Sequence 266245,	c2285	15.8	0.6	19	1	US-11-101-244-892033	Sequence 892033,
2213	15.8	0.6	19	1	US-11-101-244-266246	Sequence 266246,	2286	15.8	0.6	19	1	US-11-101-244-907691	Sequence 907691,
2214	15.8	0.6	19	1	US-11-101-244-266272	Sequence 266272,	c2287	15.8	0.6	19	1	US-11-101-244-907992	Sequence 907992,
2215	15.8	0.6	19	1	US-11-101-244-266288	Sequence 266288,	c2288	15.8	0.6	19	1	US-11-101-244-907994	Sequence 907994,
2216	15.8	0.6	19	1	US-11-101-244-266290	Sequence 266290,	c2289	15.8	0.6	19	1	US-11-101-244-914735	Sequence 914735,
2217	15.8	0.6	19	1	US-11-101-244-266298	Sequence 266298,	c2290	15.8	0.6	19	1	US-11-101-244-92699	Sequence 92699, A
2218	15.8	0.6	19	1	US-11-101-244-266325	Sequence 266325,	c2291	15.8	0.6	19	1	US-11-101-244-92728	Sequence 92728, A
2219	15.8	0.6	19	1	US-11-101-244-266327	Sequence 266327,	c2292	15.8	0.6	19	1	US-11-101-244-931272	Sequence 931272,
2220	15.8	0.6	19	1	US-11-101-244-266342	Sequence 266342,	c2293	15.8	0.6	19	1	US-11-101-244-975201	Sequence 975201,
2221	15.8	0.6	19	1	US-11-101-244-266367	Sequence 266367,	c2294	15.8	0.6	19	1	US-11-101-244-99429	Sequence 99429, A
c2222	15.8	0.6	19	1	US-11-101-244-270184	Sequence 270184,	c2295	15.4	0.5	18	1	US-10-310-914A-100637	Sequence 100637,
2223	15.8	0.6	19	1	US-11-101-244-271359	Sequence 271359,	2296	15.4	0.5	18	1	US-10-310-914A-1016583	Sequence 1016583,



c2297	15.4	0.5	18	1	US-10-310-914A-102205	Sequence 102205,	c2370	15.4	0.5	18	1	US-10-310-914A-359578	Sequence 359578,
c2298	15.4	0.5	18	1	US-10-310-914A-1028307	Sequence 1028307,	c2371	15.4	0.5	18	1	US-10-310-914A-381571	Sequence 381571,
c2299	15.4	0.5	18	1	US-10-310-914A-1032207	Sequence 1032207,	c2372	15.4	0.5	18	1	US-10-310-914A-426653	Sequence 426653,
c2300	15.4	0.5	18	1	US-10-310-914A-1036320	Sequence 1036320,	c2373	15.4	0.5	18	1	US-10-310-914A-434461	Sequence 434461,
c2301	15.4	0.5	18	1	US-10-310-914A-1037665	Sequence 1037665,	c2374	15.4	0.5	18	1	US-10-310-914A-444186	Sequence 444186,
c2302	15.4	0.5	18	1	US-10-310-914A-1044107	Sequence 1044107,	c2375	15.4	0.5	18	1	US-10-310-914A-450886	Sequence 450886,
c2303	15.4	0.5	18	1	US-10-310-914A-1062176	Sequence 1062176,	c2376	15.4	0.5	18	1	US-10-310-914A-452200	Sequence 452200,
c2304	15.4	0.5	18	1	US-10-310-914A-1069551	Sequence 1069551,	c2377	15.4	0.5	18	1	US-10-310-914A-452200	Sequence 452200,
c2305	15.4	0.5	18	1	US-10-310-914A-1074271	Sequence 1074271,	c2378	15.4	0.5	18	1	US-10-310-914A-452200	Sequence 452200,
c2306	15.4	0.5	18	1	US-10-310-914A-107955	Sequence 107955,	c2379	15.4	0.5	18	1	US-10-310-914A-477967	Sequence 477967,
c2307	15.4	0.5	18	1	US-10-310-914A-1084012	Sequence 1084012,	c2380	15.4	0.5	18	1	US-10-310-914A-494556	Sequence 494556,
c2308	15.4	0.5	18	1	US-10-310-914A-1086206	Sequence 1086206,	c2381	15.4	0.5	18	1	US-10-310-914A-495449	Sequence 495449,
c2309	15.4	0.5	18	1	US-10-310-914A-1100444	Sequence 1100444,	c2382	15.4	0.5	18	1	US-10-310-914A-503546	Sequence 503546,
c2310	15.4	0.5	18	1	US-10-310-914A-1143110	Sequence 1143110,	c2383	15.4	0.5	18	1	US-10-310-914A-504163	Sequence 504163,
c2311	15.4	0.5	18	1	US-10-310-914A-1149399	Sequence 1149399,	c2384	15.4	0.5	18	1	US-10-310-914A-512134	Sequence 512134,
c2312	15.4	0.5	18	1	US-10-310-914A-1149401	Sequence 1149401,	c2385	15.4	0.5	18	1	US-10-310-914A-522259	Sequence 522259,
c2313	15.4	0.5	18	1	US-10-310-914A-1149656	Sequence 1149656,	c2386	15.4	0.5	18	1	US-10-310-914A-522259	Sequence 522259,
c2314	15.4	0.5	18	1	US-10-310-914A-1157526	Sequence 1157526,	c2387	15.4	0.5	18	1	US-10-310-914A-528096	Sequence 528096,
c2315	15.4	0.5	18	1	US-10-310-914A-1157545	Sequence 1157545,	c2388	15.4	0.5	18	1	US-10-310-914A-538065	Sequence 538065,
c2316	15.4	0.5	18	1	US-10-310-914A-1159106	Sequence 1159106,	c2389	15.4	0.5	18	1	US-10-310-914A-545804	Sequence 545804,
c2317	15.4	0.5	18	1	US-10-310-914A-120639	Sequence 120639,	c2390	15.4	0.5	18	1	US-10-310-914A-555713	Sequence 555713,
c2318	15.4	0.5	18	1	US-10-310-914A-1207502	Sequence 1207502,	c2391	15.4	0.5	18	1	US-10-310-914A-561132	Sequence 561132,
c2319	15.4	0.5	18	1	US-10-310-914A-1211674	Sequence 1211674,	c2392	15.4	0.5	18	1	US-10-310-914A-564362	Sequence 564362,
c2320	15.4	0.5	18	1	US-10-310-914A-1211675	Sequence 1211675,	c2393	15.4	0.5	18	1	US-10-310-914A-574892	Sequence 574892,
c2321	15.4	0.5	18	1	US-10-310-914A-1230404	Sequence 1230404,	c2394	15.4	0.5	18	1	US-10-310-914A-629558	Sequence 629558,
c2322	15.4	0.5	18	1	US-10-310-914A-1249812	Sequence 1249812,	c2395	15.4	0.5	18	1	US-10-310-914A-649493	Sequence 649493,
c2323	15.4	0.5	18	1	US-10-310-914A-1263315	Sequence 1263315,	c2396	15.4	0.5	18	1	US-10-310-914A-650524	Sequence 650524,
c2324	15.4	0.5	18	1	US-10-310-914A-1263740	Sequence 1263740,	c2397	15.4	0.5	18	1	US-10-310-914A-653240	Sequence 653240,
c2325	15.4	0.5	18	1	US-10-310-914A-1263741	Sequence 1263741,	c2398	15.4	0.5	18	1	US-10-310-914A-657827	Sequence 657827,
c2326	15.4	0.5	18	1	US-10-310-914A-1263742	Sequence 1263742,	c2399	15.4	0.5	18	1	US-10-310-914A-661058	Sequence 661058,
c2327	15.4	0.5	18	1	US-10-310-914A-1268679	Sequence 1268679,	c2400	15.4	0.5	18	1	US-10-310-914A-677856	Sequence 677856,
c2328	15.4	0.5	18	1	US-10-310-914A-1268679	Sequence 1268679,	c2401	15.4	0.5	18	1	US-10-310-914A-677856	Sequence 677856,
c2329	15.4	0.5	18	1	US-10-310-914A-1284874	Sequence 1284874,	c2402	15.4	0.5	18	1	US-10-310-914A-686818	Sequence 686818,
c2330	15.4	0.5	18	1	US-10-310-914A-1284874	Sequence 1284874,	c2403	15.4	0.5	18	1	US-10-310-914A-692005	Sequence 692005,
c2331	15.4	0.5	18	1	US-10-310-914A-1345352	Sequence 1345352,	c2404	15.4	0.5	18	1	US-10-310-914A-706286	Sequence 706286,
c2332	15.4	0.5	18	1	US-10-310-914A-1375798	Sequence 1375798,	c2405	15.4	0.5	18	1	US-10-310-914A-716728	Sequence 716728,
c2333	15.4	0.5	18	1	US-10-310-914A-159503	Sequence 159503,	c2406	15.4	0.5	18	1	US-10-310-914A-718799	Sequence 718799,
c2334	15.4	0.5	18	1	US-10-310-914A-159504	Sequence 159504,	c2407	15.4	0.5	18	1	US-10-310-914A-739333	Sequence 739333,
c2335	15.4	0.5	18	1	US-10-310-914A-163377	Sequence 163377,	c2408	15.4	0.5	18	1	US-10-310-914A-743407	Sequence 743407,
c2336	15.4	0.5	18	1	US-10-310-914A-172103	Sequence 172103,	c2409	15.4	0.5	18	1	US-10-310-914A-745719	Sequence 745719,
c2337	15.4	0.5	18	1	US-10-310-914A-182480	Sequence 182480,	c2410	15.4	0.5	18	1	US-10-310-914A-746456	Sequence 746456,
c2338	15.4	0.5	18	1	US-10-310-914A-189625	Sequence 189625,	c2411	15.4	0.5	18	1	US-10-310-914A-762673	Sequence 762673,
c2339	15.4	0.5	18	1	US-10-310-914A-192082	Sequence 192082,	c2412	15.4	0.5	18	1	US-10-310-914A-764842	Sequence 764842,
c2340	15.4	0.5	18	1	US-10-310-914A-196032	Sequence 196032,	c2413	15.4	0.5	18	1	US-10-310-914A-764986	Sequence 764986,
c2341	15.4	0.5	18	1	US-10-310-914A-197739	Sequence 197739,	c2414	15.4	0.5	18	1	US-10-310-914A-769845	Sequence 769845,
c2342	15.4	0.5	18	1	US-10-310-914A-197739	Sequence 197739,	c2415	15.4	0.5	18	1	US-10-310-914A-792238	Sequence 792238,
c2343	15.4	0.5	18	1	US-10-310-914A-197742	Sequence 197742,	c2416	15.4	0.5	18	1	US-10-310-914A-800744	Sequence 800744,
c2344	15.4	0.5	18	1	US-10-310-914A-202985	Sequence 202985,	c2417	15.4	0.5	18	1	US-10-310-914A-810438	Sequence 810438,
c2345	15.4	0.5	18	1	US-10-310-914A-209520	Sequence 209520,	c2418	15.4	0.5	18	1	US-10-310-914A-820798	Sequence 820798,
c2346	15.4	0.5	18	1	US-10-310-914A-215665	Sequence 215665,	c2419	15.4	0.5	18	1	US-10-310-914A-829586	Sequence 829586,
c2347	15.4	0.5	18	1	US-10-310-914A-218724	Sequence 218724,	c2420	15.4	0.5	18	1	US-10-310-914A-831618	Sequence 831618,
c2348	15.4	0.5	18	1	US-10-310-914A-219250	Sequence 219250,	c2421	15.4	0.5	18	1	US-10-310-914A-852910	Sequence 852910,
c2349	15.4	0.5	18	1	US-10-310-914A-221984	Sequence 221984,	c2422	15.4	0.5	18	1	US-10-310-914A-881167	Sequence 881167,
c2350	15.4	0.5	18	1	US-10-310-914A-223360	Sequence 223360,	c2423	15.4	0.5	18	1	US-10-310-914A-890720	Sequence 890720,
c2351	15.4	0.5	18	1	US-10-310-914A-230463	Sequence 230463,	c2424	15.4	0.5	18	1	US-10-310-914A-910388	Sequence 910388,
c2352	15.4	0.5	18	1	US-10-310-914A-232272	Sequence 232272,	c2425	15.4	0.5	18	1	US-10-310-914A-921975	Sequence 921975,
c2353	15.4	0.5	18	1	US-10-310-914A-241174	Sequence 241174,	c2426	15.4	0.5	18	1	US-10-310-914A-924920	Sequence 924920,
c2354	15.4	0.5	18	1	US-10-310-914A-259899	Sequence 259899,	c2427	15.4	0.5	18	1	US-10-310-914A-947620	Sequence 947620,
c2355	15.4	0.5	18	1	US-10-310-914A-267873	Sequence 267873,	c2428	15.4	0.5	18	1	US-10-310-914A-966495	Sequence 966495,
c2356	15.4	0.5	18	1	US-10-310-914A-270613	Sequence 270613,	c2429	15.4	0.5	18	1	US-10-310-914A-976548	Sequence 976548,
c2357	15.4	0.5	18	1	US-10-310-914A-282239	Sequence 282239,	c2430	15.4	0.5	18	1	US-10-310-914A-982537	Sequence 982537,
c2358	15.4	0.5	18	1	US-10-310-914A-288986	Sequence 288986,	c2431	15.4	0.5	18	1	US-10-310-914A-985256	Sequence 985256,
c2359	15.4	0.5	18	1	US-10-310-914A-288987	Sequence 288987,	c2432	15.4	0.5	18	1	US-10-310-914A-988860	Sequence 988860,
c2360	15.4	0.5	18	1	US-10-310-914A-288996	Sequence 288996,	c2433	15.4	0.5	18	1	US-10-857-780-487	Sequence 487, App
c2361	15.4	0.5	18	1	US-10-310-914A-301388	Sequence 301388,	c2434	15.4	0.5	18	1	US-10-310-914A-101044	Sequence 101044,
c2362	15.4	0.5	18	1	US-10-310-914A-301520	Sequence 301520,	c2435	15.4	0.5	19	1	US-10-310-914A-1012717	Sequence 1012717,
c2363	15.4	0.5	18	1	US-10-310-914A-313809	Sequence 313809,	c2436	15.4	0.5	19	1	US-10-310-914A-1026511	Sequence 1026511,
c2364	15.4	0.5	18	1	US-10-310-914A-319004	Sequence 319004,	c2437	15.4	0.5	19	1	US-10-310-914A-1029740	Sequence 1029740,
c2365	15.4	0.5	18	1	US-10-310-914A-319616	Sequence 319616,	c2438	15.4	0.5	19	1	US-10-310-914A-1029741	Sequence 1029741,
c2366	15.4	0.5	18	1	US-10-310-914A-324661	Sequence 324661,	c2439	15.4	0.5	19	1	US-10-310-914A-1036072	Sequence 1036072,
c2367	15.4	0.5	18	1	US-10-310-914A-333296	Sequence 333296,	c2440	15.4	0.5	19	1	US-10-310-914A-1041433	Sequence 1041433,
c2368	15.4	0.5	18	1	US-10-310-914A-333299	Sequence 333299,	c2441	15.4	0.5	19	1	US-10-310-914A-1041462	Sequence 1041462,
c2369	15.4	0.5	18	1	US-10-310-914A-343591	Sequence 343591,	c2442	15.4	0.5	19	1	US-10-310-914A-1062169	Sequence 1062169,

c2443	15.4	19	1	US-10-310-914A-1074393	Sequence 1074393,	c2516	15.4	19	1	US-10-310-914A-456421	Sequence 456421,
c2444	15.4	19	1	US-10-310-914A-1077895	Sequence 1077895,	c2517	15.4	19	1	US-10-310-914A-468577	Sequence 468577,
c2445	15.4	19	1	US-10-310-914A-1089523	Sequence 1089523,	c2518	15.4	19	1	US-10-310-914A-477952	Sequence 477952,
c2446	15.4	19	1	US-10-310-914A-1089571	Sequence 1089571,	c2519	15.4	19	1	US-10-310-914A-479180	Sequence 479180,
c2447	15.4	19	1	US-10-310-914A-1095370	Sequence 1095370,	c2520	15.4	19	1	US-10-310-914A-487763	Sequence 487763,
c2448	15.4	19	1	US-10-310-914A-1108586	Sequence 1108586,	c2521	15.4	19	1	US-10-310-914A-495400	Sequence 495400,
c2449	15.4	19	1	US-10-310-914A-1112536	Sequence 1112536,	c2522	15.4	19	1	US-10-310-914A-497285	Sequence 497285,
c2450	15.4	19	1	US-10-310-914A-1119211	Sequence 1119211,	c2523	15.4	19	1	US-10-310-914A-504140	Sequence 504140,
c2451	15.4	19	1	US-10-310-914A-1128251	Sequence 1128251,	c2524	15.4	19	1	US-10-310-914A-508579	Sequence 508579,
c2452	15.4	19	1	US-10-310-914A-1128667	Sequence 1128667,	c2525	15.4	19	1	US-10-310-914A-513759	Sequence 513759,
c2453	15.4	19	1	US-10-310-914A-1133531	Sequence 1133531,	c2526	15.4	19	1	US-10-310-914A-521637	Sequence 521637,
c2454	15.4	19	1	US-10-310-914A-1146240	Sequence 1146240,	c2527	15.4	19	1	US-10-310-914A-524534	Sequence 524534,
c2455	15.4	19	1	US-10-310-914A-1146310	Sequence 1146310,	c2528	15.4	19	1	US-10-310-914A-526119	Sequence 526119,
c2456	15.4	19	1	US-10-310-914A-1149544	Sequence 1149544,	c2529	15.4	19	1	US-10-310-914A-564612	Sequence 564612,
c2457	15.4	19	1	US-10-310-914A-115352	Sequence 115352,	c2530	15.4	19	1	US-10-310-914A-565883	Sequence 565883,
c2458	15.4	19	1	US-10-310-914A-1175127	Sequence 1175127,	c2531	15.4	19	1	US-10-310-914A-567667	Sequence 567667,
c2459	15.4	19	1	US-10-310-914A-1185332	Sequence 1185332,	c2532	15.4	19	1	US-10-310-914A-576555	Sequence 576555,
c2460	15.4	19	1	US-10-310-914A-1185372	Sequence 1185372,	c2533	15.4	19	1	US-10-310-914A-577167	Sequence 577167,
c2461	15.4	19	1	US-10-310-914A-1190536	Sequence 1190536,	c2534	15.4	19	1	US-10-310-914A-583717	Sequence 583717,
c2462	15.4	19	1	US-10-310-914A-1198869	Sequence 1198869,	c2535	15.4	19	1	US-10-310-914A-585802	Sequence 585802,
c2463	15.4	19	1	US-10-310-914A-1220411	Sequence 1220411,	c2536	15.4	19	1	US-10-310-914A-588720	Sequence 588720,
c2464	15.4	19	1	US-10-310-914A-1258168	Sequence 1258168,	c2537	15.4	19	1	US-10-310-914A-601474	Sequence 601474,
c2465	15.4	19	1	US-10-310-914A-1263737	Sequence 1263737,	c2538	15.4	19	1	US-10-310-914A-628776	Sequence 628776,
c2466	15.4	19	1	US-10-310-914A-1283283	Sequence 1283283,	c2539	15.4	19	1	US-10-310-914A-649507	Sequence 649507,
c2467	15.4	19	1	US-10-310-914A-1295098	Sequence 1295098,	c2540	15.4	19	1	US-10-310-914A-660861	Sequence 660861,
c2468	15.4	19	1	US-10-310-914A-1308419	Sequence 1308419,	c2541	15.4	19	1	US-10-310-914A-675502	Sequence 675502,
c2469	15.4	19	1	US-10-310-914A-1316808	Sequence 1316808,	c2542	15.4	19	1	US-10-310-914A-689721	Sequence 689721,
c2470	15.4	19	1	US-10-310-914A-1335542	Sequence 1335542,	c2543	15.4	19	1	US-10-310-914A-692840	Sequence 692840,
c2471	15.4	19	1	US-10-310-914A-1335563	Sequence 1335563,	c2544	15.4	19	1	US-10-310-914A-700946	Sequence 700946,
c2472	15.4	19	1	US-10-310-914A-1342487	Sequence 1342487,	c2545	15.4	19	1	US-10-310-914A-700952	Sequence 700952,
c2473	15.4	19	1	US-10-310-914A-1355556	Sequence 1355556,	c2546	15.4	19	1	US-10-310-914A-719684	Sequence 719684,
c2474	15.4	19	1	US-10-310-914A-1367131	Sequence 1367131,	c2547	15.4	19	1	US-10-310-914A-728245	Sequence 728245,
c2475	15.4	19	1	US-10-310-914A-1375799	Sequence 1375799,	c2548	15.4	19	1	US-10-310-914A-730312	Sequence 730312,
c2476	15.4	19	1	US-10-310-914A-1378069	Sequence 1378069,	c2549	15.4	19	1	US-10-310-914A-763427	Sequence 763427,
c2477	15.4	19	1	US-10-310-914A-1386500	Sequence 1386500,	c2550	15.4	19	1	US-10-310-914A-764855	Sequence 764855,
c2478	15.4	19	1	US-10-310-914A-146906	Sequence 146906,	c2551	15.4	19	1	US-10-310-914A-780936	Sequence 780936,
c2479	15.4	19	1	US-10-310-914A-146952	Sequence 146952,	c2552	15.4	19	1	US-10-310-914A-783235	Sequence 783235,
c2480	15.4	19	1	US-10-310-914A-159518	Sequence 159518,	c2553	15.4	19	1	US-10-310-914A-784332	Sequence 784332,
c2481	15.4	19	1	US-10-310-914A-161673	Sequence 161673,	c2554	15.4	19	1	US-10-310-914A-804103	Sequence 804103,
c2482	15.4	19	1	US-10-310-914A-167327	Sequence 167327,	c2555	15.4	19	1	US-10-310-914A-804653	Sequence 804653,
c2483	15.4	19	1	US-10-310-914A-171434	Sequence 171434,	c2556	15.4	19	1	US-10-310-914A-810323	Sequence 810323,
c2484	15.4	19	1	US-10-310-914A-180994	Sequence 180994,	c2557	15.4	19	1	US-10-310-914A-820902	Sequence 820902,
c2485	15.4	19	1	US-10-310-914A-182848	Sequence 182848,	c2558	15.4	19	1	US-10-310-914A-821842	Sequence 821842,
c2486	15.4	19	1	US-10-310-914A-189335	Sequence 189335,	c2559	15.4	19	1	US-10-310-914A-830252	Sequence 830252,
c2487	15.4	19	1	US-10-310-914A-191776	Sequence 191776,	c2560	15.4	19	1	US-10-310-914A-848998	Sequence 848998,
c2488	15.4	19	1	US-10-310-914A-219184	Sequence 219184,	c2561	15.4	19	1	US-10-310-914A-863405	Sequence 863405,
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c2490	15.4	19	1	US-10-310-914A-219248	Sequence 219248,	c2563	15.4	19	1	US-10-310-914A-870168	Sequence 870168,
c2491	15.4	19	1	US-10-310-914A-223361	Sequence 223361,	c2564	15.4	19	1	US-10-310-914A-870702	Sequence 870702,
c2492	15.4	19	1	US-10-310-914A-223666	Sequence 223666,	c2565	15.4	19	1	US-10-310-914A-872313	Sequence 872313,
c2493	15.4	19	1	US-10-310-914A-226066	Sequence 226066,	c2566	15.4	19	1	US-10-310-914A-908423	Sequence 908423,
c2494	15.4	19	1	US-10-310-914A-250244	Sequence 250244,	c2567	15.4	19	1	US-10-310-914A-911408	Sequence 911408,
c2495	15.4	19	1	US-10-310-914A-256329	Sequence 256329,	c2568	15.4	19	1	US-10-310-914A-922122	Sequence 922122,
c2496	15.4	19	1	US-10-310-914A-267938	Sequence 267938,	c2569	15.4	19	1	US-10-310-914A-936571	Sequence 936571,
c2497	15.4	19	1	US-10-310-914A-274518	Sequence 274518,	c2570	15.4	19	1	US-10-310-914A-962532	Sequence 962532,
c2498	15.4	19	1	US-10-310-914A-279867	Sequence 279867,	c2571	15.4	19	1	US-10-310-914A-971586	Sequence 971586,
c2499	15.4	19	1	US-10-310-914A-309744	Sequence 309744,	c2572	15.4	19	1	US-10-310-914A-988066	Sequence 988066,
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c2501	15.4	19	1	US-10-310-914A-343437	Sequence 343437,	c2574	15.4	19	1	US-10-857-780-4346	Sequence 4346, Ap
c2502	15.4	19	1	US-10-310-914A-343590	Sequence 343590,	c2575	15.4	19	1	US-11-083-784-1000355	Sequence 1000355,
c2503	15.4	19	1	US-10-310-914A-344613	Sequence 344613,	c2576	15.4	19	1	US-11-083-784-100564	Sequence 100564,
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c2505	15.4	19	1	US-10-310-914A-359579	Sequence 359579,	c2578	15.4	19	1	US-11-083-784-100761	Sequence 100761,
c2506	15.4	19	1	US-10-310-914A-363929	Sequence 363929,	c2579	15.4	19	1	US-11-083-784-1007841	Sequence 1007841,
c2507	15.4	19	1	US-10-310-914A-402953	Sequence 402953,	c2580	15.4	19	1	US-11-083-784-1007931	Sequence 1007931,
c2508	15.4	19	1	US-10-310-914A-416089	Sequence 416089,	c2581	15.4	19	1	US-11-083-784-1027970	Sequence 1027970,
c2509	15.4	19	1	US-10-310-914A-416116	Sequence 416116,	c2582	15.4	19	1	US-11-083-784-1028377	Sequence 1028377,
c2510	15.4	19	1	US-10-310-914A-42402	Sequence 42402, A	c2583	15.4	19	1	US-11-083-784-1038639	Sequence 1038639,
c2511	15.4	19	1	US-10-310-914A-432029	Sequence 432029,	c2584	15.4	19	1	US-11-083-784-1068900	Sequence 1068900,
c2512	15.4	19	1	US-10-310-914A-434468	Sequence 434468,	c2585	15.4	19	1	US-11-083-784-1081080	Sequence 1081080,
c2513	15.4	19	1	US-10-310-914A-436070	Sequence 436070,	c2586	15.4	19	1	US-11-083-784-1091685	Sequence 1091685,
c2514	15.4	19	1	US-10-310-914A-449019	Sequence 449019,	c2587	15.4	19	1	US-11-083-784-1091693	Sequence 1091693,
c2515	15.4	19	1	US-10-310-914A-450689	Sequence 450689,	c2588	15.4	19	1	US-11-083-784-1126624	Sequence 1126624,

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C2590	15.4	0.5	19	1	US-11-083-784-1147588	Sequence 1147588,	C2663	15.4	0.5	19	1	US-11-083-784-459998	Sequence 459998,
2591	15.4	0.5	19	1	US-11-083-784-1155516	Sequence 1155516,	C2664	15.4	0.5	19	1	US-11-083-784-465045	Sequence 465045,
2592	15.4	0.5	19	1	US-11-083-784-1168867	Sequence 1168867,	C2665	15.4	0.5	19	1	US-11-083-784-466868	Sequence 466868,
C2593	15.4	0.5	19	1	US-11-083-784-1172501	Sequence 1172501,	C2666	15.4	0.5	19	1	US-11-083-784-467178	Sequence 467178,
C2594	15.4	0.5	19	1	US-11-083-784-1172748	Sequence 1172748,	C2667	15.4	0.5	19	1	US-11-083-784-505210	Sequence 505210,
2595	15.4	0.5	19	1	US-11-083-784-1209643	Sequence 1209643,	C2668	15.4	0.5	19	1	US-11-083-784-511326	Sequence 511326,
2596	15.4	0.5	19	1	US-11-083-784-1209715	Sequence 1209715,	C2669	15.4	0.5	19	1	US-11-083-784-520089	Sequence 520089,
C2597	15.4	0.5	19	1	US-11-083-784-1213344	Sequence 1213344,	C2670	15.4	0.5	19	1	US-11-083-784-520542	Sequence 520542,
C2598	15.4	0.5	19	1	US-11-083-784-1213741	Sequence 1213741,	C2671	15.4	0.5	19	1	US-11-083-784-570550	Sequence 570550,
C2599	15.4	0.5	19	1	US-11-083-784-1225497	Sequence 1225497,	C2672	15.4	0.5	19	1	US-11-083-784-584689	Sequence 584689,
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C2605	15.4	0.5	19	1	US-11-083-784-1271365	Sequence 1271365,	C2678	15.4	0.5	19	1	US-11-083-784-671119	Sequence 671119,
C2606	15.4	0.5	19	1	US-11-083-784-1281327	Sequence 1281327,	C2679	15.4	0.5	19	1	US-11-083-784-671953	Sequence 671953,
C2607	15.4	0.5	19	1	US-11-083-784-1296043	Sequence 1296043,	C2680	15.4	0.5	19	1	US-11-083-784-672564	Sequence 672564,
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2612	15.4	0.5	19	1	US-11-083-784-1336449	Sequence 1336449,	C2685	15.4	0.5	19	1	US-11-083-784-767058	Sequence 767058,
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C2616	15.4	0.5	19	1	US-11-083-784-1456527	Sequence 1456527,	C2689	15.4	0.5	19	1	US-11-083-784-795845	Sequence 795845,
C2617	15.4	0.5	19	1	US-11-083-784-1456528	Sequence 1456528,	C2690	15.4	0.5	19	1	US-11-083-784-805564	Sequence 805564,
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C2622	15.4	0.5	19	1	US-11-083-784-1542681	Sequence 1542681,	C2695	15.4	0.5	19	1	US-11-083-784-848809	Sequence 848809,
C2623	15.4	0.5	19	1	US-11-083-784-1553138	Sequence 1553138,	C2696	15.4	0.5	19	1	US-11-083-784-848906	Sequence 848906,
C2624	15.4	0.5	19	1	US-11-083-784-1553303	Sequence 1553303,	C2697	15.4	0.5	19	1	US-11-083-784-849106	Sequence 849106,
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2627	15.4	0.5	19	1	US-11-083-784-15633810	Sequence 15633810,	C2700	15.4	0.5	19	1	US-11-083-784-865005	Sequence 865005,
C2628	15.4	0.5	19	1	US-11-083-784-185600	Sequence 185600,	C2701	15.4	0.5	19	1	US-11-083-784-866847	Sequence 866847,
2629	15.4	0.5	19	1	US-11-083-784-185600	Sequence 185600,	C2702	15.4	0.5	19	1	US-11-083-784-892042	Sequence 892042,
2630	15.4	0.5	19	1	US-11-083-784-228473	Sequence 228473,	C2703	15.4	0.5	19	1	US-11-083-784-917360	Sequence 917360,
C2631	15.4	0.5	19	1	US-11-083-784-228540	Sequence 228540,	C2704	15.4	0.5	19	1	US-11-083-784-991372	Sequence 991372,
C2632	15.4	0.5	19	1	US-11-083-784-229662	Sequence 229662,	C2705	15.4	0.5	19	1	US-11-083-784-99295	Sequence 99295, A
C2633	15.4	0.5	19	1	US-11-083-784-239502	Sequence 239502,	C2706	15.4	0.5	19	1	US-11-083-784-1000355	Sequence 1000355,
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2636	15.4	0.5	19	1	US-11-083-784-265992	Sequence 265992,	C2709	15.4	0.5	19	1	US-11-083-784-100761	Sequence 100761,
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C2643	15.4	0.5	19	1	US-11-083-784-283855	Sequence 283855,	C2716	15.4	0.5	19	1	US-11-083-784-1028377	Sequence 1028377,
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C2655	15.4	0.5	19	1	US-11-083-784-425420	Sequence 425420,	C2729	15.4	0.5	19	1	US-11-083-784-1028377	Sequence 1028377,
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C2661	15.4	0.5	19	1	US-11-083-784-458533	Sequence 458533,	C2735	15.4	0.5	19	1	US-11-083-784-1028377	Sequence 1028377,

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2740	15.4	19	1	US-11-101-244-1308772	Sequence 1308772,	c2813	15.4	0.5	19	1	US-11-101-244-737785	Sequence 737785,
2741	15.4	19	1	US-11-101-244-1333779	Sequence 1333779,	2814	15.4	0.5	19	1	US-11-101-244-740737	Sequence 740737,
2742	15.4	19	1	US-11-101-244-1333841	Sequence 1338441,	c2815	15.4	0.5	19	1	US-11-101-244-759724	Sequence 759724,
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c2745	15.4	19	1	US-11-101-244-1422977	Sequence 1422977,	2818	15.4	0.5	19	1	US-11-101-244-771069	Sequence 771069,
2746	15.4	19	1	US-11-101-244-1431606	Sequence 1431606,	2819	15.4	0.5	19	1	US-11-101-244-795065	Sequence 795065,
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2749	15.4	19	1	US-11-101-244-1481529	Sequence 1481529,	c2822	15.4	0.5	19	1	US-11-101-244-806581	Sequence 806581,
2750	15.4	19	1	US-11-101-244-1489990	Sequence 1489990,	c2823	15.4	0.5	19	1	US-11-101-244-836335	Sequence 836335,
2751	15.4	19	1	US-11-101-244-1493498	Sequence 1493498,	c2824	15.4	0.5	19	1	US-11-101-244-847666	Sequence 847666,
2752	15.4	19	1	US-11-101-244-152565	Sequence 152565,	2825	15.4	0.5	19	1	US-11-101-244-848809	Sequence 848809,
c2753	15.4	19	1	US-11-101-244-1542681	Sequence 1542681,	c2826	15.4	0.5	19	1	US-11-101-244-848906	Sequence 848906,
c2754	15.4	19	1	US-11-101-244-1553138	Sequence 1553138,	c2827	15.4	0.5	19	1	US-11-101-244-849009	Sequence 849009,
c2755	15.4	19	1	US-11-101-244-1553303	Sequence 1553303,	c2828	15.4	0.5	19	1	US-11-101-244-849106	Sequence 849106,
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2757	15.4	19	1	US-11-101-244-1556320	Sequence 1556320,	2830	15.4	0.5	19	1	US-11-101-244-865005	Sequence 865005,
2758	15.4	19	1	US-11-101-244-1593810	Sequence 1593810,	2831	15.4	0.5	19	1	US-11-101-244-865847	Sequence 865847,
c2759	15.4	19	1	US-11-101-244-185600	Sequence 185600,	c2832	15.4	0.5	19	1	US-11-101-244-892042	Sequence 892042,
2760	15.4	19	1	US-11-101-244-185692	Sequence 185692,	c2833	15.4	0.5	19	1	US-11-101-244-92042	Sequence 92042,
2761	15.4	19	1	US-11-101-244-228473	Sequence 228473,	2834	15.4	0.5	19	1	US-11-101-244-971360	Sequence 971360,
c2762	15.4	19	1	US-11-101-244-228540	Sequence 228540,	c2835	15.4	0.5	19	1	US-11-101-244-991372	Sequence 991372,
c2763	15.4	19	1	US-11-101-244-229662	Sequence 229662,	2836	15.4	0.5	19	1	US-11-101-244-99295	Sequence 99295, A
c2764	15.4	19	1	US-11-101-244-239502	Sequence 239502,	c2837	15.4	0.5	19	1	US-10-310-914A-1030800	Sequence 1030800,
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2766	15.4	19	1	US-11-101-244-246941	Sequence 246941,	c2839	15.4	0.5	18	1	US-10-310-914A-1074411	Sequence 1074411,
2767	15.4	19	1	US-11-101-244-265992	Sequence 265992,	c2840	15.4	0.5	18	1	US-10-310-914A-108019	Sequence 108019,
2768	15.4	19	1	US-11-101-244-266150	Sequence 266150,	2841	15.4	0.5	18	1	US-10-310-914A-1219678	Sequence 1219678,
2769	15.4	19	1	US-11-101-244-266159	Sequence 266159,	2842	15.4	0.5	18	1	US-10-310-914A-1219679	Sequence 1219679,
2770	15.4	19	1	US-11-101-244-266171	Sequence 266171,	2843	15.4	0.5	18	1	US-10-310-914A-128605	Sequence 128605,
2771	15.4	19	1	US-11-101-244-269922	Sequence 269922,	c2844	15.4	0.5	18	1	US-10-310-914A-1353070	Sequence 1353070,
c2772	15.4	19	1	US-11-101-244-271291	Sequence 271291,	c2845	15.4	0.5	18	1	US-10-310-914A-1377945	Sequence 1377945,
c2773	15.4	19	1	US-11-101-244-277787	Sequence 277787,	c2846	15.4	0.5	18	1	US-10-310-914A-1385190	Sequence 1385190,
c2774	15.4	19	1	US-11-101-244-283855	Sequence 283855,	c2847	15.4	0.5	18	1	US-10-310-914A-186703	Sequence 186703,
c2775	15.4	19	1	US-11-101-244-283963	Sequence 283963,	c2848	15.4	0.5	18	1	US-10-310-914A-186950	Sequence 186950,
2776	15.4	19	1	US-11-101-244-292890	Sequence 292890,	c2849	15.4	0.5	18	1	US-10-310-914A-186951	Sequence 186951,
2777	15.4	19	1	US-11-101-244-352582	Sequence 352582,	c2850	15.4	0.5	18	1	US-10-310-914A-271904	Sequence 271904,
c2778	15.4	19	1	US-11-101-244-362300	Sequence 362300,	c2851	15.4	0.5	18	1	US-10-310-914A-333050	Sequence 333050,
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2780	15.4	19	1	US-11-101-244-408473	Sequence 408473,	c2853	15.4	0.5	18	1	US-10-310-914A-422804	Sequence 422804,
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c2783	15.4	19	1	US-11-101-244-412201	Sequence 412201,	c2856	15.4	0.5	18	1	US-10-310-914A-464317	Sequence 464317,
2784	15.4	19	1	US-11-101-244-412299	Sequence 412299,	c2857	15.4	0.5	18	1	US-10-310-914A-481577	Sequence 481577,
2785	15.4	19	1	US-11-101-244-412409	Sequence 412409,	2858	15.4	0.5	18	1	US-10-310-914A-526216	Sequence 526216,
c2786	15.4	19	1	US-11-101-244-412608	Sequence 412608,	c2859	15.4	0.5	18	1	US-10-310-914A-544644	Sequence 544644,
2787	15.4	19	1	US-11-101-244-425420	Sequence 425420,	2860	15.4	0.5	18	1	US-10-310-914A-554096	Sequence 554096,
2788	15.4	19	1	US-11-101-244-426482	Sequence 426482,	2861	15.4	0.5	18	1	US-10-310-914A-624967	Sequence 624967,
2789	15.4	19	1	US-11-101-244-455365	Sequence 455365,	c2862	15.4	0.5	18	1	US-10-310-914A-671586	Sequence 671586,
2790	15.4	19	1	US-11-101-244-458736	Sequence 458736,	2863	15.4	0.5	18	1	US-10-310-914A-696227	Sequence 696227,
c2791	15.4	19	1	US-11-101-244-458787	Sequence 458787,	2864	15.4	0.5	18	1	US-10-310-914A-69826	Sequence 69826, A
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c2793	15.4	19	1	US-11-101-244-459576	Sequence 459576,	2866	15.4	0.5	18	1	US-10-310-914A-706052	Sequence 706052,
c2794	15.4	19	1	US-11-101-244-459998	Sequence 459998,	c2867	15.4	0.5	18	1	US-10-310-914A-706166	Sequence 706166,
c2795	15.4	19	1	US-11-101-244-465045	Sequence 465045,	c2868	15.4	0.5	18	1	US-10-310-914A-708368	Sequence 708368,
c2796	15.4	19	1	US-11-101-244-466868	Sequence 466868,	2869	15.4	0.5	18	1	US-10-310-914A-750112	Sequence 750112,
2797	15.4	19	1	US-11-101-244-467178	Sequence 467178,	2870	15.4	0.5	18	1	US-10-310-914A-871147	Sequence 871147,
c2798	15.4	19	1	US-11-101-244-505210	Sequence 505210,	c2871	15.4	0.5	18	1	US-10-310-914A-911470	Sequence 911470,
c2799	15.4	19	1	US-11-101-244-511326	Sequence 511326,	c2872	15.4	0.5	23	1	US-10-310-914A-935979	Sequence 935979,
c2800	15.4	19	1	US-11-101-244-520089	Sequence 520089,	c2873	15.4	0.5	25	1	US-10-310-914A-188845	Sequence 188845,
2801	15.4	19	1	US-11-101-244-520089	Sequence 520089,	2874	15.4	0.5	25	1	US-10-310-914A-186959	Sequence 186959,
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2803	15.4	19	1	US-11-101-244-570550	Sequence 570550,	c2876	14.8	0.5	25	1	US-10-310-914A-1002240	Sequence 1002240,
c2804	15.4	19	1	US-11-101-244-584689	Sequence 584689,	c2877	14.8	0.5	18	1	US-10-310-914A-1002241	Sequence 1002241,
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2806	15.4	19	1	US-11-101-244-601713	Sequence 601713,	2879	14.8	0.5	18	1	US-10-310-914A-1010135	Sequence 1010135,
c2807	15.4	19	1	US-11-101-244-632280	Sequence 632280,	c2880	14.8	0.5	18	1	US-10-310-914A-1021188	Sequence 1021188,
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c2939	14.8	0.5	18	1	US-10-310-914A-1245221	Sequence 1245221,	c3012	14.8	0.5	18	1	US-10-310-914A-182757	Sequence 182757,
c2940	14.8	0.5	18	1	US-10-310-914A-1254417	Sequence 1254417,	c3013	14.8	0.5	18	1	US-10-310-914A-184497	Sequence 184497,
c2941	14.8	0.5	18	1	US-10-310-914A-1256008	Sequence 1256008,	c3014	14.8	0.5	18	1	US-10-310-914A-189740	Sequence 189740,
c2942	14.8	0.5	18	1	US-10-310-914A-1256184	Sequence 1256184,	c3015	14.8	0.5	18	1	US-10-310-914A-189741	Sequence 189741,
c2943	14.8	0.5	18	1	US-10-310-914A-1259162	Sequence 1259162,	c3016	14.8	0.5	18	1	US-10-310-914A-189742	Sequence 189742,
c2944	14.8	0.5	18	1	US-10-310-914A-1259701	Sequence 1259701,	c3017	14.8	0.5	18	1	US-10-310-914A-189743	Sequence 189743,
c2945	14.8	0.5	18	1	US-10-310-914A-1263516	Sequence 1263516,	c3018	14.8	0.5	18	1	US-10-310-914A-189744	Sequence 189744,
c2946	14.8	0.5	18	1	US-10-310-914A-1268590	Sequence 1268590,	c3019	14.8	0.5	18	1	US-10-310-914A-191449	Sequence 191449,
c2947	14.8	0.5	18	1	US-10-310-914A-1271187	Sequence 1271187,	c3020	14.8	0.5	18	1	US-10-310-914A-191450	Sequence 191450,
c2948	14.8	0.5	18	1	US-10-310-914A-1278669	Sequence 1278669,	c3021	14.8	0.5	18	1	US-10-310-914A-192718	Sequence 192718,
c2949	14.8	0.5	18	1	US-10-310-914A-127998	Sequence 127998,	c3022	14.8	0.5	18	1	US-10-310-914A-195850	Sequence 195850,
c2950	14.8	0.5	18	1	US-10-310-914A-1282880	Sequence 1282880,	c3023	14.8	0.5	18	1	US-10-310-914A-197890	Sequence 197890,
c2951	14.8	0.5	18	1	US-10-310-914A-1283625	Sequence 1283625,	c3024	14.8	0.5	18	1	US-10-310-914A-203130	Sequence 203130,
c2952	14.8	0.5	18	1	US-10-310-914A-1293325	Sequence 1293325,	c3025	14.8	0.5	18	1	US-10-310-914A-211253	Sequence 211253,
c2953	14.8	0.5	18	1	US-10-310-914A-1299325	Sequence 1299325,	c3026	14.8	0.5	18	1	US-10-310-914A-214524	Sequence 214524,

c3027	14.8	1	US-10-310-914A-214540	Sequence 214540,	c3100	14.8	0.5	18	1	US-10-310-914A-364975	Sequence 364975,
3028	14.8	0.5	US-10-310-914A-215662	Sequence 215662,	3101	14.8	0.5	18	1	US-10-310-914A-368124	Sequence 368124,
3029	14.8	0.5	US-10-310-914A-215662	Sequence 215662,	3102	14.8	0.5	18	1	US-10-310-914A-374239	Sequence 374239,
3030	14.8	0.5	US-10-310-914A-215846	Sequence 215846,	3103	14.8	0.5	18	1	US-10-310-914A-376263	Sequence 376263,
3031	14.8	0.5	US-10-310-914A-217000	Sequence 217000,	3104	14.8	0.5	18	1	US-10-310-914A-377946	Sequence 377946,
3032	14.8	0.5	US-10-310-914A-221968	Sequence 221968,	3105	14.8	0.5	18	1	US-10-310-914A-383716	Sequence 383716,
3033	14.8	0.5	US-10-310-914A-221976	Sequence 221976,	3106	14.8	0.5	18	1	US-10-310-914A-384356	Sequence 384356,
3034	14.8	0.5	US-10-310-914A-221989	Sequence 221989,	3107	14.8	0.5	18	1	US-10-310-914A-385460	Sequence 385460,
c3035	14.8	0.5	US-10-310-914A-223072	Sequence 223072,	c3108	14.8	0.5	18	1	US-10-310-914A-390934	Sequence 390934,
3036	14.8	0.5	US-10-310-914A-227992	Sequence 227992,	3109	14.8	0.5	18	1	US-10-310-914A-390935	Sequence 390935,
c3037	14.8	0.5	US-10-310-914A-228742	Sequence 228742,	c3110	14.8	0.5	18	1	US-10-310-914A-394896	Sequence 394896,
3038	14.8	0.5	US-10-310-914A-236308	Sequence 236308,	c3111	14.8	0.5	18	1	US-10-310-914A-400777	Sequence 400777,
c3039	14.8	0.5	US-10-310-914A-238185	Sequence 238185,	c3112	14.8	0.5	18	1	US-10-310-914A-406790	Sequence 406790,
3040	14.8	0.5	US-10-310-914A-245275	Sequence 245275,	3113	14.8	0.5	18	1	US-10-310-914A-407681	Sequence 407681,
c3041	14.8	0.5	US-10-310-914A-246617	Sequence 246617,	c3114	14.8	0.5	18	1	US-10-310-914A-412083	Sequence 412083,
3042	14.8	0.5	US-10-310-914A-247682	Sequence 247682,	c3115	14.8	0.5	18	1	US-10-310-914A-412084	Sequence 412084,
c3043	14.8	0.5	US-10-310-914A-248141	Sequence 248141,	c3116	14.8	0.5	18	1	US-10-310-914A-412085	Sequence 412085,
3044	14.8	0.5	US-10-310-914A-255931	Sequence 255931,	c3117	14.8	0.5	18	1	US-10-310-914A-412086	Sequence 412086,
c3045	14.8	0.5	US-10-310-914A-255932	Sequence 255932,	c3118	14.8	0.5	18	1	US-10-310-914A-414036	Sequence 414036,
3046	14.8	0.5	US-10-310-914A-257835	Sequence 257835,	3119	14.8	0.5	18	1	US-10-310-914A-414036	Sequence 414036,
c3047	14.8	0.5	US-10-310-914A-257836	Sequence 257836,	c3120	14.8	0.5	18	1	US-10-310-914A-414502	Sequence 414502,
3048	14.8	0.5	US-10-310-914A-257953	Sequence 257953,	3121	14.8	0.5	18	1	US-10-310-914A-41983	Sequence 41983,
c3049	14.8	0.5	US-10-310-914A-258762	Sequence 258762,	c3122	14.8	0.5	18	1	US-10-310-914A-426626	Sequence 426626,
3050	14.8	0.5	US-10-310-914A-260749	Sequence 260749,	3123	14.8	0.5	18	1	US-10-310-914A-426627	Sequence 426627,
c3051	14.8	0.5	US-10-310-914A-260794	Sequence 260794,	c3124	14.8	0.5	18	1	US-10-310-914A-427455	Sequence 427455,
3052	14.8	0.5	US-10-310-914A-275924	Sequence 275924,	c3125	14.8	0.5	18	1	US-10-310-914A-427843	Sequence 427843,
c3053	14.8	0.5	US-10-310-914A-275925	Sequence 275925,	c3126	14.8	0.5	18	1	US-10-310-914A-432640	Sequence 432640,
3054	14.8	0.5	US-10-310-914A-276545	Sequence 276545,	c3127	14.8	0.5	18	1	US-10-310-914A-437134	Sequence 437134,
c3055	14.8	0.5	US-10-310-914A-279742	Sequence 279742,	c3128	14.8	0.5	18	1	US-10-310-914A-438688	Sequence 438688,
3056	14.8	0.5	US-10-310-914A-280844	Sequence 280844,	3129	14.8	0.5	18	1	US-10-310-914A-448208	Sequence 448208,
c3057	14.8	0.5	US-10-310-914A-280845	Sequence 280845,	c3130	14.8	0.5	18	1	US-10-310-914A-450670	Sequence 450670,
3058	14.8	0.5	US-10-310-914A-285330	Sequence 285330,	c3131	14.8	0.5	18	1	US-10-310-914A-458134	Sequence 458134,
c3059	14.8	0.5	US-10-310-914A-288177	Sequence 288177,	c3132	14.8	0.5	18	1	US-10-310-914A-458167	Sequence 458167,
3060	14.8	0.5	US-10-310-914A-288178	Sequence 288178,	3133	14.8	0.5	18	1	US-10-310-914A-458841	Sequence 458841,
c3061	14.8	0.5	US-10-310-914A-288212	Sequence 288212,	c3134	14.8	0.5	18	1	US-10-310-914A-459770	Sequence 459770,
3062	14.8	0.5	US-10-310-914A-290137	Sequence 290137,	c3135	14.8	0.5	18	1	US-10-310-914A-460186	Sequence 460186,
c3063	14.8	0.5	US-10-310-914A-298166	Sequence 298166,	c3136	14.8	0.5	18	1	US-10-310-914A-460187	Sequence 460187,
3064	14.8	0.5	US-10-310-914A-305901	Sequence 305901,	c3137	14.8	0.5	18	1	US-10-310-914A-46414	Sequence 46414,
c3065	14.8	0.5	US-10-310-914A-313459	Sequence 313459,	c3138	14.8	0.5	18	1	US-10-310-914A-465057	Sequence 465057,
3066	14.8	0.5	US-10-310-914A-317194	Sequence 317194,	3139	14.8	0.5	18	1	US-10-310-914A-468427	Sequence 468427,
c3067	14.8	0.5	US-10-310-914A-317195	Sequence 317195,	c3140	14.8	0.5	18	1	US-10-310-914A-48245	Sequence 48245,
3068	14.8	0.5	US-10-310-914A-317196	Sequence 317196,	c3141	14.8	0.5	18	1	US-10-310-914A-485318	Sequence 485318,
c3069	14.8	0.5	US-10-310-914A-317197	Sequence 317197,	c3142	14.8	0.5	18	1	US-10-310-914A-485320	Sequence 485320,
3070	14.8	0.5	US-10-310-914A-317198	Sequence 317198,	c3143	14.8	0.5	18	1	US-10-310-914A-48562	Sequence 48562,
c3071	14.8	0.5	US-10-310-914A-320871	Sequence 320871,	c3144	14.8	0.5	18	1	US-10-310-914A-48563	Sequence 48563,
3072	14.8	0.5	US-10-310-914A-321254	Sequence 321254,	c3145	14.8	0.5	18	1	US-10-310-914A-48564	Sequence 48564,
c3073	14.8	0.5	US-10-310-914A-321831	Sequence 321831,	c3146	14.8	0.5	18	1	US-10-310-914A-486134	Sequence 486134,
3074	14.8	0.5	US-10-310-914A-324371	Sequence 324371,	3147	14.8	0.5	18	1	US-10-310-914A-488003	Sequence 488003,
c3075	14.8	0.5	US-10-310-914A-324372	Sequence 324372,	c3148	14.8	0.5	18	1	US-10-310-914A-490223	Sequence 490223,
3076	14.8	0.5	US-10-310-914A-324382	Sequence 324382,	c3149	14.8	0.5	18	1	US-10-310-914A-494453	Sequence 494453,
c3077	14.8	0.5	US-10-310-914A-324663	Sequence 324663,	c3150	14.8	0.5	18	1	US-10-310-914A-494505	Sequence 494505,
3078	14.8	0.5	US-10-310-914A-326522	Sequence 326522,	c3151	14.8	0.5	18	1	US-10-310-914A-494506	Sequence 494506,
c3079	14.8	0.5	US-10-310-914A-329168	Sequence 329168,	c3152	14.8	0.5	18	1	US-10-310-914A-494507	Sequence 494507,
3080	14.8	0.5	US-10-310-914A-329395	Sequence 329395,	c3153	14.8	0.5	18	1	US-10-310-914A-494508	Sequence 494508,
c3081	14.8	0.5	US-10-310-914A-329396	Sequence 329396,	c3154	14.8	0.5	18	1	US-10-310-914A-495485	Sequence 495485,
3082	14.8	0.5	US-10-310-914A-332226	Sequence 332226,	c3155	14.8	0.5	18	1	US-10-310-914A-495900	Sequence 495900,
c3083	14.8	0.5	US-10-310-914A-338105	Sequence 338105,	c3156	14.8	0.5	18	1	US-10-310-914A-496355	Sequence 496355,
3084	14.8	0.5	US-10-310-914A-338955	Sequence 338955,	c3157	14.8	0.5	18	1	US-10-310-914A-496793	Sequence 496793,
c3085	14.8	0.5	US-10-310-914A-338998	Sequence 338998,	c3158	14.8	0.5	18	1	US-10-310-914A-496927	Sequence 496927,
3086	14.8	0.5	US-10-310-914A-339015	Sequence 339015,	c3159	14.8	0.5	18	1	US-10-310-914A-500078	Sequence 500078,
c3087	14.8	0.5	US-10-310-914A-339016	Sequence 339016,	3160	14.8	0.5	18	1	US-10-310-914A-503746	Sequence 503746,
3088	14.8	0.5	US-10-310-914A-339017	Sequence 339017,	c3161	14.8	0.5	18	1	US-10-310-914A-508505	Sequence 508505,
c3089	14.8	0.5	US-10-310-914A-339141	Sequence 339141,	c3162	14.8	0.5	18	1	US-10-310-914A-508544	Sequence 508544,
3090	14.8	0.5	US-10-310-914A-339241	Sequence 339241,	c3163	14.8	0.5	18	1	US-10-310-914A-51708	Sequence 51708,
c3091	14.8	0.5	US-10-310-914A-339247	Sequence 339247,	c3164	14.8	0.5	18	1	US-10-310-914A-519021	Sequence 519021,
3092	14.8	0.5	US-10-310-914A-339250	Sequence 339250,	3165	14.8	0.5	18	1	US-10-310-914A-519456	Sequence 519456,
c3093	14.8	0.5	US-10-310-914A-341334	Sequence 341334,	3166	14.8	0.5	18	1	US-10-310-914A-519956	Sequence 519956,
3094	14.8	0.5	US-10-310-914A-341335	Sequence 341335,	3167	14.8	0.5	18	1	US-10-310-914A-547113	Sequence 547113,
c3095	14.8	0.5	US-10-310-914A-341336	Sequence 341336,	c3168	14.8	0.5	18	1	US-10-310-914A-548063	Sequence 548063,
3096	14.8	0.5	US-10-310-914A-341337	Sequence 341337,	c3169	14.8	0.5	18	1	US-10-310-914A-554425	Sequence 554425,
c3097	14.8	0.5	US-10-310-914A-341347	Sequence 341347,	3170	14.8	0.5	18	1	US-10-310-914A-554426	Sequence 554426,
3098	14.8	0.5	US-10-310-914A-355447	Sequence 355447,	c3171	14.8	0.5	18	1	US-10-310-914A-554426	Sequence 554426,
c3099	14.8	0.5	US-10-310-914A-361457	Sequence 361457,	3172	14.8	0.5	18	1	US-10-310-914A-560053	Sequence 560053,

3173	14.8	0.5	18	1	US-10-310-914A-56290	Sequence 56290, A	C3246	14.8	0.5	18	1	US-10-310-914A-810423	Sequence 810423,
3174	14.8	0.5	18	1	US-10-310-914A-564610	Sequence 564610, A	C3247	14.8	0.5	18	1	US-10-310-914A-810429	Sequence 810429,
3175	14.8	0.5	18	1	US-10-310-914A-57140	Sequence 57140, A	C3248	14.8	0.5	18	1	US-10-310-914A-813673	Sequence 813673,
3176	14.8	0.5	18	1	US-10-310-914A-586502	Sequence 586502, A	C3249	14.8	0.5	18	1	US-10-310-914A-816475	Sequence 816475,
3177	14.8	0.5	18	1	US-10-310-914A-587656	Sequence 587656, A	C3250	14.8	0.5	18	1	US-10-310-914A-816476	Sequence 816476,
3178	14.8	0.5	18	1	US-10-310-914A-589233	Sequence 589233, A	C3251	14.8	0.5	18	1	US-10-310-914A-81733	Sequence 81733, A
3179	14.8	0.5	18	1	US-10-310-914A-592461	Sequence 592461, A	C3252	14.8	0.5	18	1	US-10-310-914A-819218	Sequence 819218,
3180	14.8	0.5	18	1	US-10-310-914A-592557	Sequence 592557, A	C3253	14.8	0.5	18	1	US-10-310-914A-819400	Sequence 819400,
3181	14.8	0.5	18	1	US-10-310-914A-605146	Sequence 605146, A	C3254	14.8	0.5	18	1	US-10-310-914A-821559	Sequence 821559,
3182	14.8	0.5	18	1	US-10-310-914A-605490	Sequence 605490, A	C3255	14.8	0.5	18	1	US-10-310-914A-82386	Sequence 82386, A
3183	14.8	0.5	18	1	US-10-310-914A-614024	Sequence 614024, A	C3256	14.8	0.5	18	1	US-10-310-914A-826474	Sequence 826474,
3184	14.8	0.5	18	1	US-10-310-914A-617243	Sequence 617243, A	C3257	14.8	0.5	18	1	US-10-310-914A-826518	Sequence 826518,
3185	14.8	0.5	18	1	US-10-310-914A-62166	Sequence 62166, A	C3258	14.8	0.5	18	1	US-10-310-914A-828958	Sequence 828958,
3186	14.8	0.5	18	1	US-10-310-914A-625766	Sequence 625766, A	C3259	14.8	0.5	18	1	US-10-310-914A-840682	Sequence 840682,
3187	14.8	0.5	18	1	US-10-310-914A-629656	Sequence 629656, A	C3260	14.8	0.5	18	1	US-10-310-914A-842304	Sequence 842304,
3188	14.8	0.5	18	1	US-10-310-914A-632068	Sequence 632068, A	C3261	14.8	0.5	18	1	US-10-310-914A-844402	Sequence 844402,
3189	14.8	0.5	18	1	US-10-310-914A-632069	Sequence 632069, A	C3262	14.8	0.5	18	1	US-10-310-914A-845670	Sequence 845670,
3190	14.8	0.5	18	1	US-10-310-914A-640424	Sequence 640424, A	C3263	14.8	0.5	18	1	US-10-310-914A-84848	Sequence 84848, A
3191	14.8	0.5	18	1	US-10-310-914A-641628	Sequence 641628, A	C3264	14.8	0.5	18	1	US-10-310-914A-84854	Sequence 84854, A
3192	14.8	0.5	18	1	US-10-310-914A-651444	Sequence 651444, A	C3265	14.8	0.5	18	1	US-10-310-914A-852885	Sequence 852885,
3193	14.8	0.5	18	1	US-10-310-914A-651892	Sequence 651892, A	C3266	14.8	0.5	18	1	US-10-310-914A-854405	Sequence 854405,
3194	14.8	0.5	18	1	US-10-310-914A-659960	Sequence 659960, A	C3267	14.8	0.5	18	1	US-10-310-914A-858071	Sequence 858071,
3195	14.8	0.5	18	1	US-10-310-914A-661179	Sequence 661179, A	C3268	14.8	0.5	18	1	US-10-310-914A-859797	Sequence 859797,
3196	14.8	0.5	18	1	US-10-310-914A-661998	Sequence 661998, A	C3269	14.8	0.5	18	1	US-10-310-914A-862880	Sequence 862880, A
3197	14.8	0.5	18	1	US-10-310-914A-668951	Sequence 668951, A	C3270	14.8	0.5	18	1	US-10-310-914A-866971	Sequence 866971, A
3198	14.8	0.5	18	1	US-10-310-914A-670776	Sequence 670776, A	C3271	14.8	0.5	18	1	US-10-310-914A-871269	Sequence 871269,
3199	14.8	0.5	18	1	US-10-310-914A-671804	Sequence 671804, A	C3272	14.8	0.5	18	1	US-10-310-914A-872009	Sequence 872009,
3200	14.8	0.5	18	1	US-10-310-914A-671970	Sequence 671970, A	C3273	14.8	0.5	18	1	US-10-310-914A-875912	Sequence 875912,
3201	14.8	0.5	18	1	US-10-310-914A-673265	Sequence 673265, A	C3274	14.8	0.5	18	1	US-10-310-914A-87750	Sequence 87750, A
3202	14.8	0.5	18	1	US-10-310-914A-673265	Sequence 673265, A	C3275	14.8	0.5	18	1	US-10-310-914A-880041	Sequence 880041, A
3203	14.8	0.5	18	1	US-10-310-914A-683853	Sequence 683853, A	C3276	14.8	0.5	18	1	US-10-310-914A-880735	Sequence 880735,
3204	14.8	0.5	18	1	US-10-310-914A-691358	Sequence 691358, A	C3277	14.8	0.5	18	1	US-10-310-914A-881409	Sequence 881409,
3205	14.8	0.5	18	1	US-10-310-914A-691359	Sequence 691359, A	C3278	14.8	0.5	18	1	US-10-310-914A-881883	Sequence 881883,
3206	14.8	0.5	18	1	US-10-310-914A-701177	Sequence 701177, A	C3279	14.8	0.5	18	1	US-10-310-914A-884570	Sequence 884570,
3207	14.8	0.5	18	1	US-10-310-914A-701920	Sequence 701920, A	C3280	14.8	0.5	18	1	US-10-310-914A-891505	Sequence 891505,
3208	14.8	0.5	18	1	US-10-310-914A-704094	Sequence 704094, A	C3281	14.8	0.5	18	1	US-10-310-914A-893302	Sequence 893302,
3209	14.8	0.5	18	1	US-10-310-914A-717571	Sequence 717571, A	C3282	14.8	0.5	18	1	US-10-310-914A-899415	Sequence 899415,
3210	14.8	0.5	18	1	US-10-310-914A-717572	Sequence 717572, A	C3283	14.8	0.5	18	1	US-10-310-914A-899491	Sequence 899491,
3211	14.8	0.5	18	1	US-10-310-914A-720206	Sequence 720206, A	C3284	14.8	0.5	18	1	US-10-310-914A-899566	Sequence 899566,
3212	14.8	0.5	18	1	US-10-310-914A-720207	Sequence 720207, A	C3285	14.8	0.5	18	1	US-10-310-914A-899583	Sequence 899583,
3213	14.8	0.5	18	1	US-10-310-914A-722788	Sequence 722788, A	C3286	14.8	0.5	18	1	US-10-310-914A-899584	Sequence 899584,
3214	14.8	0.5	18	1	US-10-310-914A-72316	Sequence 72316, A	C3287	14.8	0.5	18	1	US-10-310-914A-901668	Sequence 901668,
3215	14.8	0.5	18	1	US-10-310-914A-724457	Sequence 724457, A	C3288	14.8	0.5	18	1	US-10-310-914A-902228	Sequence 902228, A
3216	14.8	0.5	18	1	US-10-310-914A-724458	Sequence 724458, A	C3289	14.8	0.5	18	1	US-10-310-914A-908149	Sequence 908149,
3217	14.8	0.5	18	1	US-10-310-914A-726802	Sequence 726802, A	C3290	14.8	0.5	18	1	US-10-310-914A-908180	Sequence 908180,
3218	14.8	0.5	18	1	US-10-310-914A-726803	Sequence 726803, A	C3291	14.8	0.5	18	1	US-10-310-914A-918141	Sequence 918141,
3219	14.8	0.5	18	1	US-10-310-914A-728206	Sequence 728206, A	C3292	14.8	0.5	18	1	US-10-310-914A-918372	Sequence 918372,
3220	14.8	0.5	18	1	US-10-310-914A-72844	Sequence 72844, A	C3293	14.8	0.5	18	1	US-10-310-914A-918377	Sequence 918377,
3221	14.8	0.5	18	1	US-10-310-914A-732229	Sequence 732229, A	C3294	14.8	0.5	18	1	US-10-310-914A-922272	Sequence 922272,
3222	14.8	0.5	18	1	US-10-310-914A-741450	Sequence 741450, A	C3295	14.8	0.5	18	1	US-10-310-914A-924919	Sequence 924919,
3223	14.8	0.5	18	1	US-10-310-914A-744516	Sequence 744516, A	C3296	14.8	0.5	18	1	US-10-310-914A-933683	Sequence 933683,
3224	14.8	0.5	18	1	US-10-310-914A-746636	Sequence 746636, A	C3297	14.8	0.5	18	1	US-10-310-914A-938141	Sequence 938141,
3225	14.8	0.5	18	1	US-10-310-914A-752041	Sequence 752041, A	C3298	14.8	0.5	18	1	US-10-310-914A-941511	Sequence 941511,
3226	14.8	0.5	18	1	US-10-310-914A-760573	Sequence 760573, A	C3299	14.8	0.5	18	1	US-10-310-914A-943903	Sequence 943903,
3227	14.8	0.5	18	1	US-10-310-914A-760613	Sequence 760613, A	C3300	14.8	0.5	18	1	US-10-310-914A-945629	Sequence 945629,
3228	14.8	0.5	18	1	US-10-310-914A-763015	Sequence 763015, A	C3301	14.8	0.5	18	1	US-10-310-914A-94846	Sequence 94846, A
3229	14.8	0.5	18	1	US-10-310-914A-765271	Sequence 765271, A	C3302	14.8	0.5	18	1	US-10-310-914A-94847	Sequence 94847, A
3230	14.8	0.5	18	1	US-10-310-914A-765271	Sequence 765271, A	C3303	14.8	0.5	18	1	US-10-310-914A-94848	Sequence 94848, A
3231	14.8	0.5	18	1	US-10-310-914A-768368	Sequence 768368, A	C3304	14.8	0.5	18	1	US-10-310-914A-94849	Sequence 94849, A
3232	14.8	0.5	18	1	US-10-310-914A-771432	Sequence 771432, A	C3305	14.8	0.5	18	1	US-10-310-914A-949568	Sequence 949568,
3233	14.8	0.5	18	1	US-10-310-914A-78293	Sequence 78293, A	C3306	14.8	0.5	18	1	US-10-310-914A-969283	Sequence 969283,
3234	14.8	0.5	18	1	US-10-310-914A-78294	Sequence 78294, A	C3307	14.8	0.5	18	1	US-10-310-914A-97658	Sequence 97658, A
3235	14.8	0.5	18	1	US-10-310-914A-78298	Sequence 78298, A	C3308	14.8	0.5	18	1	US-10-310-914A-980288	Sequence 980288,
3236	14.8	0.5	18	1	US-10-310-914A-78303	Sequence 78303, A	C3309	14.8	0.5	18	1	US-10-310-914A-982513	Sequence 982513,
3237	14.8	0.5	18	1	US-10-310-914A-784276	Sequence 784276, A	C3310	14.8	0.5	18	1	US-10-310-914A-982563	Sequence 982563,
3238	14.8	0.5	18	1	US-10-310-914A-78524	Sequence 78524, A	C3311	14.8	0.5	18	1	US-10-310-914A-982975	Sequence 982975,
3239	14.8	0.5	18	1	US-10-310-914A-78786	Sequence 78786, A	C3312	14.8	0.5	18	1	US-10-310-914A-982983	Sequence 982983,
3240	14.8	0.5	18	1	US-10-310-914A-788022	Sequence 788022, A	C3313	14.8	0.5	18	1	US-10-310-914A-983282	Sequence 983282,
3241	14.8	0.5	18	1	US-10-310-914A-790491	Sequence 790491, A	C3314	14.8	0.5	18	1	US-10-310-914A-983799	Sequence 983799,
3242	14.8	0.5	18	1	US-10-310-914A-79767	Sequence 79767, A	C3315	14.8	0.5	18	1	US-10-310-914A-983800	Sequence 983800,
3243	14.8	0.5	18	1	US-10-310-914A-79768	Sequence 79768, A	C3316	14.8	0.5	18	1	US-10-310-914A-983959	Sequence 983959,
3244	14.8	0.5	18	1	US-10-310-914A-798848	Sequence 798848, A	C3317	14.8	0.5	18	1	US-10-310-914A-984916	Sequence 984916,
3245	14.8	0.5	18	1	US-10-310-914A-807633	Sequence 807633, A	C3318	14.8	0.5	18	1	US-10-310-914A-984916	Sequence 984916,



C3319	14.8	0.5	18	1	US-10-310-914A-99047	Sequence 99047, A	C3392	14.4	0.5	18	1	US-10-310-914A-149483	Sequence 149483,
3320	14.8	0.5	18	1	US-10-310-914A-991896	Sequence 991896,	3393	14.4	0.5	18	1	US-10-310-914A-153348	Sequence 153348,
3321	14.8	0.5	18	1	US-10-310-914A-991995	Sequence 991995,	3394	14.4	0.5	18	1	US-10-310-914A-172701	Sequence 172701,
C3322	14.8	0.5	18	1	US-10-310-914A-993968	Sequence 993968,	3395	14.4	0.5	18	1	US-10-310-914A-172451	Sequence 172451,
C3323	14.8	0.5	18	1	US-10-310-914A-993968	Sequence 993968,	3396	14.4	0.5	18	1	US-10-310-914A-173923	Sequence 173923,
C3324	14.8	0.5	18	1	US-10-310-914A-995031	Sequence 995031,	3397	14.4	0.5	18	1	US-10-310-914A-178258	Sequence 178258,
C3325	14.4	0.5	18	1	US-10-858-341-990	Sequence 991, App	3398	14.4	0.5	18	1	US-10-310-914A-184600	Sequence 184600,
3326	14.4	0.5	16	1	US-10-858-341-991	Sequence 991, App	3399	14.4	0.5	18	1	US-10-310-914A-189561	Sequence 189561,
3327	14.4	0.5	18	1	US-10-310-914A-1001383	Sequence 1001383,	3400	14.4	0.5	18	1	US-10-310-914A-189738	Sequence 189738,
3328	14.4	0.5	18	1	US-10-310-914A-1001466	Sequence 1001466,	3401	14.4	0.5	18	1	US-10-310-914A-190230	Sequence 190230,
C3329	14.4	0.5	18	1	US-10-310-914A-1001966	Sequence 1001966,	3402	14.4	0.5	18	1	US-10-310-914A-191791	Sequence 191791,
C3330	14.4	0.5	18	1	US-10-310-914A-1006057	Sequence 1006057,	3403	14.4	0.5	18	1	US-10-310-914A-194950	Sequence 194950,
C3331	14.4	0.5	18	1	US-10-310-914A-1008512	Sequence 1008512,	3404	14.4	0.5	18	1	US-10-310-914A-195855	Sequence 195855,
C3332	14.4	0.5	18	1	US-10-310-914A-101436	Sequence 101436,	3405	14.4	0.5	18	1	US-10-310-914A-206297	Sequence 206297,
C3333	14.4	0.5	18	1	US-10-310-914A-1032997	Sequence 1032997,	3406	14.4	0.5	18	1	US-10-310-914A-224574	Sequence 224574,
3334	14.4	0.5	18	1	US-10-310-914A-1033457	Sequence 1033457,	3407	14.4	0.5	18	1	US-10-310-914A-227990	Sequence 227990,
C3335	14.4	0.5	18	1	US-10-310-914A-1038179	Sequence 1038179,	3408	14.4	0.5	18	1	US-10-310-914A-232264	Sequence 232264,
3336	14.4	0.5	18	1	US-10-310-914A-1041600	Sequence 1041600,	3409	14.4	0.5	18	1	US-10-310-914A-232874	Sequence 232874,
3337	14.4	0.5	18	1	US-10-310-914A-1041668	Sequence 1041668,	C3410	14.4	0.5	18	1	US-10-310-914A-238171	Sequence 238171,
C3338	14.4	0.5	18	1	US-10-310-914A-1053739	Sequence 1053739,	3411	14.4	0.5	18	1	US-10-310-914A-242619	Sequence 242619,
3339	14.4	0.5	18	1	US-10-310-914A-1069949	Sequence 1069949,	3412	14.4	0.5	18	1	US-10-310-914A-242670	Sequence 242670,
C3340	14.4	0.5	18	1	US-10-310-914A-1070346	Sequence 1070346,	3413	14.4	0.5	18	1	US-10-310-914A-250729	Sequence 250729,
C3341	14.4	0.5	18	1	US-10-310-914A-1082019	Sequence 1082019,	3414	14.4	0.5	18	1	US-10-310-914A-264662	Sequence 264662,
C3342	14.4	0.5	18	1	US-10-310-914A-1083004	Sequence 1083004,	3415	14.4	0.5	18	1	US-10-310-914A-264921	Sequence 264921,
C3343	14.4	0.5	18	1	US-10-310-914A-1089499	Sequence 1089499,	3416	14.4	0.5	18	1	US-10-310-914A-272978	Sequence 272978,
C3344	14.4	0.5	18	1	US-10-310-914A-1090706	Sequence 1090706,	3417	14.4	0.5	18	1	US-10-310-914A-275580	Sequence 275580,
C3345	14.4	0.5	18	1	US-10-310-914A-1090767	Sequence 1090767,	3418	14.4	0.5	18	1	US-10-310-914A-276784	Sequence 276784,
C3346	14.4	0.5	18	1	US-10-310-914A-1092518	Sequence 1092518,	3419	14.4	0.5	18	1	US-10-310-914A-277033	Sequence 277033,
C3347	14.4	0.5	18	1	US-10-310-914A-1093355	Sequence 1093355,	3420	14.4	0.5	18	1	US-10-310-914A-285331	Sequence 285331,
3348	14.4	0.5	18	1	US-10-310-914A-1097256	Sequence 1097256,	3421	14.4	0.5	18	1	US-10-310-914A-286468	Sequence 286468,
C3349	14.4	0.5	18	1	US-10-310-914A-1098065	Sequence 1098065,	3422	14.4	0.5	18	1	US-10-310-914A-288745	Sequence 288745,
C3350	14.4	0.5	18	1	US-10-310-914A-1112535	Sequence 1112535,	3423	14.4	0.5	18	1	US-10-310-914A-298797	Sequence 298797,
3351	14.4	0.5	18	1	US-10-310-914A-1114209	Sequence 1114209,	3424	14.4	0.5	18	1	US-10-310-914A-317202	Sequence 317202,
C3352	14.4	0.5	18	1	US-10-310-914A-1124379	Sequence 1124379,	3425	14.4	0.5	18	1	US-10-310-914A-322050	Sequence 322050,
C3353	14.4	0.5	18	1	US-10-310-914A-1125848	Sequence 1125848,	3426	14.4	0.5	18	1	US-10-310-914A-322831	Sequence 322831,
C3354	14.4	0.5	18	1	US-10-310-914A-113183	Sequence 113183,	3427	14.4	0.5	18	1	US-10-310-914A-324373	Sequence 324373,
3355	14.4	0.5	18	1	US-10-310-914A-1145658	Sequence 1145658,	3428	14.4	0.5	18	1	US-10-310-914A-329165	Sequence 329165,
C3356	14.4	0.5	18	1	US-10-310-914A-1146243	Sequence 1146243,	3429	14.4	0.5	18	1	US-10-310-914A-329166	Sequence 329166,
3357	14.4	0.5	18	1	US-10-310-914A-115106	Sequence 115106,	3430	14.4	0.5	18	1	US-10-310-914A-335685	Sequence 335685,
C3358	14.4	0.5	18	1	US-10-310-914A-115106	Sequence 115106,	3431	14.4	0.5	18	1	US-10-310-914A-339019	Sequence 339019,
C3359	14.4	0.5	18	1	US-10-310-914A-117104	Sequence 117104,	3432	14.4	0.5	18	1	US-10-310-914A-339020	Sequence 339020,
3360	14.4	0.5	18	1	US-10-310-914A-1187636	Sequence 1187636,	3433	14.4	0.5	18	1	US-10-310-914A-340844	Sequence 340844,
3361	14.4	0.5	18	1	US-10-310-914A-1207522	Sequence 1207522,	3434	14.4	0.5	18	1	US-10-310-914A-344554	Sequence 344554,
C3362	14.4	0.5	18	1	US-10-310-914A-121408	Sequence 121408,	3435	14.4	0.5	18	1	US-10-310-914A-346348	Sequence 346348,
C3363	14.4	0.5	18	1	US-10-310-914A-1219801	Sequence 1219801,	3436	14.4	0.5	18	1	US-10-310-914A-347490	Sequence 347490,
C3364	14.4	0.5	18	1	US-10-310-914A-1219875	Sequence 1219875,	3437	14.4	0.5	18	1	US-10-310-914A-348258	Sequence 348258,
C3365	14.4	0.5	18	1	US-10-310-914A-1220390	Sequence 1220390,	3438	14.4	0.5	18	1	US-10-310-914A-358274	Sequence 358274,
C3366	14.4	0.5	18	1	US-10-310-914A-1224554	Sequence 1224554,	3439	14.4	0.5	18	1	US-10-310-914A-360333	Sequence 360333,
C3367	14.4	0.5	18	1	US-10-310-914A-1232498	Sequence 1232498,	3440	14.4	0.5	18	1	US-10-310-914A-360349	Sequence 360349,
C3368	14.4	0.5	18	1	US-10-310-914A-1237033	Sequence 1237033,	3441	14.4	0.5	18	1	US-10-310-914A-365198	Sequence 365198,
C3369	14.4	0.5	18	1	US-10-310-914A-1245489	Sequence 1245489,	3442	14.4	0.5	18	1	US-10-310-914A-368007	Sequence 368007,
C3370	14.4	0.5	18	1	US-10-310-914A-1250289	Sequence 1250289,	3443	14.4	0.5	18	1	US-10-310-914A-368179	Sequence 368179,
C3371	14.4	0.5	18	1	US-10-310-914A-1256786	Sequence 1256786,	3444	14.4	0.5	18	1	US-10-310-914A-369289	Sequence 369289,
C3372	14.4	0.5	18	1	US-10-310-914A-1256909	Sequence 1256909,	3445	14.4	0.5	18	1	US-10-310-914A-370344	Sequence 370344,
3373	14.4	0.5	18	1	US-10-310-914A-1257137	Sequence 1257137,	3446	14.4	0.5	18	1	US-10-310-914A-371064	Sequence 371064,
C3374	14.4	0.5	18	1	US-10-310-914A-1259377	Sequence 1259377,	3447	14.4	0.5	18	1	US-10-310-914A-376151	Sequence 376151,
C3375	14.4	0.5	18	1	US-10-310-914A-1263801	Sequence 1263801,	3448	14.4	0.5	18	1	US-10-310-914A-378479	Sequence 378479,
3376	14.4	0.5	18	1	US-10-310-914A-1267485	Sequence 1267485,	3449	14.4	0.5	18	1	US-10-310-914A-381492	Sequence 381492,
3377	14.4	0.5	18	1	US-10-310-914A-1269435	Sequence 1269435,	3450	14.4	0.5	18	1	US-10-310-914A-383998	Sequence 383998,
3378	14.4	0.5	18	1	US-10-310-914A-1279760	Sequence 1279760,	3451	14.4	0.5	18	1	US-10-310-914A-386252	Sequence 386252,
3379	14.4	0.5	18	1	US-10-310-914A-1295142	Sequence 1295142,	3452	14.4	0.5	18	1	US-10-310-914A-390932	Sequence 390932,
C3380	14.4	0.5	18	1	US-10-310-914A-1295193	Sequence 1295193,	3453	14.4	0.5	18	1	US-10-310-914A-394611	Sequence 394611,
3381	14.4	0.5	18	1	US-10-310-914A-1312143	Sequence 1312143,	3454	14.4	0.5	18	1	US-10-310-914A-42467	Sequence 42467, A
C3382	14.4	0.5	18	1	US-10-310-914A-1316887	Sequence 1316887,	3455	14.4	0.5	18	1	US-10-310-914A-437480	Sequence 437480,
3383	14.4	0.5	18	1	US-10-310-914A-1321752	Sequence 1321752,	3456	14.4	0.5	18	1	US-10-310-914A-430452	Sequence 430452,
3384	14.4	0.5	18	1	US-10-310-914A-132902	Sequence 132902,	3457	14.4	0.5	18	1	US-10-310-914A-436156	Sequence 436156,
3385	14.4	0.5	18	1	US-10-310-914A-132997	Sequence 132997,	3458	14.4	0.5	18	1	US-10-310-914A-438752	Sequence 438752,
3386	14.4	0.5	18	1	US-10-310-914A-1330307	Sequence 1330307,	3459	14.4	0.5	18	1	US-10-310-914A-439689	Sequence 439689,
3387	14.4	0.5	18	1	US-10-310-914A-1339385	Sequence 1339385,	3460	14.4	0.5	18	1	US-10-310-914A-456451	Sequence 456451,
C3388	14.4	0.5	18	1	US-10-310-914A-1370760	Sequence 1370760,	3461	14.4	0.5	18	1	US-10-310-914A-463791	Sequence 463791,
C3389	14.4	0.5	18	1	US-10-310-914A-1377998	Sequence 1377998,	3462	14.4	0.5	18	1	US-10-310-914A-463792	Sequence 463792,
C3390	14.4	0.5	18	1	US-10-310-914A-1382651	Sequence 1382651,	3463	14.4	0.5	18	1	US-10-310-914A-472605	Sequence 472605,
C3391	14.4	0.5	18	1	US-10-310-914A-141447	Sequence 141447,	3464	14.4	0.5	18	1		



C3465	14.4	0.5	18	1	US-10-310-914A-473178	Sequence 473178,																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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Db 1 GGTCGATGACTCTGTCTACTGTAC 25

RESULT 3
US-11-136-527-146801
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146801
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146801

Query Match 0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2613 TGCTCTTCATCGTTAGGCTATGCTC 2637
|||||
Db 1 TGCTCTTCATCGTTAGGCTATGCTC 25

RESULT 4
US-11-136-527-146802
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146802
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146802

Query Match 0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2612 CTGCTCTTCATCGTTAGGCTATGCTC 2636
|||||
Db 1 CTGCTCTTCATCGTTAGGCTATGCTC 25

RESULT 5
US-11-136-527-146803
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
```

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; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146803
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146803

Query Match 0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2611 TCTGCTTCATCGTTAGGCTATGTC 2635
|||||
Db 1 TCTGCTTCATCGTTAGGCTATGTC 25

RESULT 6
US-11-136-527-146804
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146804
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146804

Query Match 0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2610 GTCTGTCTTCATCGTTAGGCTATGT 2634
|||||
Db 1 GTCTGTCTTCATCGTTAGGCTATGT 25

RESULT 7
US-11-136-527-146805
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
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; SEQ ID NO 146805  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: Probe  
US-11-136-527-146805

Query Match 0.9%; Score 25; DB 1; Length 25;  
Best Local Similarity 100.0%; Pred. No. 1.7e+02;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2614 GTCCTCATCGTTAGGCTATGCTCC 2638  
DB 1 GTCCTCATCGTTAGGCTATGCTCC 25

## RESULT 8

US-11-136-527-146806  
; Sequence 146806, Application US/11136527  
; Publication No. US20050287570A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William M  
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes  
; FILE REFERENCE: 031896-041000 (AM101086)  
; CURRENT APPLICATION NUMBER: US/11/136,527  
; CURRENT FILING DATE: 2005-05-25  
; PRIOR APPLICATION NUMBER: US 60/574,294  
; PRIOR FILING DATE: 2005-05-26  
; NUMBER OF SEQ ID NOS: 362830  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 146806  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: Probe  
US-11-136-527-146806

Query Match 0.9%; Score 25; DB 1; Length 25;  
Best Local Similarity 100.0%; Pred. No. 1.7e+02;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2609 GGCTGTCTTCATCGTTAGGCTATG 2633  
DB 1 GGCTGTCTTCATCGTTAGGCTATG 25

## RESULT 9

US-11-136-527-146807  
; Sequence 146807, Application US/11136527  
; Publication No. US20050287570A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William M  
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes  
; FILE REFERENCE: 031896-041000 (AM101086)  
; CURRENT APPLICATION NUMBER: US/11/136,527  
; CURRENT FILING DATE: 2005-05-25  
; PRIOR APPLICATION NUMBER: US 60/574,294  
; PRIOR FILING DATE: 2005-05-26  
; NUMBER OF SEQ ID NOS: 362830  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 146807  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: Probe  
US-11-136-527-146807

Query Match 0.9%; Score 25; DB 1; Length 25;

Best Local Similarity 100.0%; Pred. No. 1.7e+02;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2502 GGGTCTGATACCTCTGTTCTACTGTA 2526  
DB 1 GGGTCTGATACCTCTGTTCTACTGTA 25

## RESULT 10

US-11-136-527-146808  
; Sequence 146808, Application US/11136527  
; Publication No. US20050287570A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William M  
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes  
; FILE REFERENCE: 031896-041000 (AM101086)  
; CURRENT APPLICATION NUMBER: US/11/136,527  
; CURRENT FILING DATE: 2005-05-25  
; PRIOR APPLICATION NUMBER: US 60/574,294  
; PRIOR FILING DATE: 2005-05-26  
; NUMBER OF SEQ ID NOS: 362830  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 146808  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: Probe  
US-11-136-527-146808

Query Match 0.9%; Score 25; DB 1; Length 25;  
Best Local Similarity 100.0%; Pred. No. 1.7e+02;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2602 TACTGGTGGTCTGCTTCATCGTTA 2626  
DB 1 TACTGGTGGTCTGCTTCATCGTTA 25

## RESULT 11

US-11-136-527-146809  
; Sequence 146809, Application US/11136527  
; Publication No. US20050287570A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William M  
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes  
; FILE REFERENCE: 031896-041000 (AM101086)  
; CURRENT APPLICATION NUMBER: US/11/136,527  
; CURRENT FILING DATE: 2005-05-25  
; PRIOR APPLICATION NUMBER: US 60/574,294  
; PRIOR FILING DATE: 2005-05-26  
; NUMBER OF SEQ ID NOS: 362830  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 146809  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: Probe  
US-11-136-527-146809

Query Match 0.9%; Score 25; DB 1; Length 25;  
Best Local Similarity 100.0%; Pred. No. 1.7e+02;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2498 ATCTGGGTCTGATACCTCTGTTCTAC 2522  
DB 1 ATCTGGGTCTGATACCTCTGTTCTAC 25

## RESULT 12

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US-11-136-527-146810
; Sequence 146810, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146810
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146810

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2497 CATCTGGGTCGTGATCTCTGTTCTTA 2521
      |||||
Db 1 CATCTGGGTCGTGATCTCTGTTCTTA 25

RESULT 13
US-11-136-527-146811
; Sequence 146811, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146811
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146811

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2608 TGGTCGTCTTCATCGTTAGGCTAT 2632
      |||||
Db 1 TGGTCGTCTTCATCGTTAGGCTAT 25

RESULT 14
US-11-136-527-146812
; Sequence 146812, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
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; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146812
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146812

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2358 GTGAGAAAGACAGACAGACAGAAAG 2382
      |||||
Db 1 GTGAGAAAGACAGACAGACAGAAAG 25

RESULT 15
US-11-136-527-146813
; Sequence 146813, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146813
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146813

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2500 CTGGGTCGTGATCTCTGTTCTACTG 2524
      |||||
Db 1 CTGGGTCGTGATCTCTGTTCTACTG 25

RESULT 16
US-11-136-527-146814
; Sequence 146814, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146814
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
```

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; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146814

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2499 TCTGGGCTCGATACCTCTGTTCTACT 2523
Db      1 TCTGGGCTCGATACCTCTGTTCTACT 25

RESULT 17
US-11-136-527-146815
; Sequence 146815, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146815
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146815

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2501 TGGGTCGTGATACCTCTGTTCTACTGT 2525
Db      1 TGGGTCGTGATACCTCTGTTCTACTGT 25

RESULT 18
US-11-136-527-146816
; Sequence 146816, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146816
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146816

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2571 TACTATATACTCTTGTGTAGTGCA 2595
Db      1 TACTATATACTCTTGTGTAGTGCA 2595

RESULT 19
US-11-136-527-146817
; Sequence 146817, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146817
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146817

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2572 ACTATATACTCTTGTGTAGTGCA 2596
Db      1 ACTATATACTCTTGTGTAGTGCA 2596

RESULT 20
US-11-136-527-146818
; Sequence 146818, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146818
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146818

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2607 GTGGTCGTCTTCATCGTTAGGCTA 2631
Db      1 GTGGTCGTCTTCATCGTTAGGCTA 2631

RESULT 21
US-11-136-527-146819
; Sequence 146819, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
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; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146819
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146819

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2359 TGAAGAAAGACAGACAGACAGAAAGC 2383
      |||||
      1 TGAAGAAAGACAGACAGACAGAAAGC 25

RESULT 22
US-11-136-527-146820
; Sequence 146820, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146820
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146820

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2357 CGTGAGAAAGACAGACAGACAGAAA 2381
      |||||
      1 CGTGAGAAAGACAGACAGACAGAAA 25

RESULT 23
US-11-136-527-146821
; Sequence 146821, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
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; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146821
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146821

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2673 CTTCTTCATCGATTGTTTCTTCTG 2697
      |||||
      1 CTTCTTCATCGATTGTTTCTTCTG 25

Db

RESULT 24
US-11-136-527-146822
; Sequence 146822, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146822
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146822

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2672 TCTTCTTCATCGATTGTTTCTTCT 2696
      |||||
      1 TCTTCTTCATCGATTGTTTCTTCT 25

Db

RESULT 25
US-11-136-527-146823
; Sequence 146823, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146823
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146823
```

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Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2671 CTCCTTCATGATGTTCTTC 2695
Db 1 CTCCTTCATGATGTTCTTC 25

RESULT 26
US-11-136-527-146824
; Sequence 146824, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146824
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146824

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2674 TTCCTTCATGATGTTCTTCGA 2698
Db 1 TTCCTTCATGATGTTCTTCGA 25

RESULT 27
US-11-136-527-146825
; Sequence 146825, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146825
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146825

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2603 ACTGGTGTCTCTTCATCGTTAG 2627
Db 1 ACTGGTGTCTCTTCATCGTTAG 25

RESULT 28
US-11-136-527-146826
; Sequence 146826, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146826
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146826

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2601 CTACTGGTGTCTCTTCATCGTT 2625
Db 1 CTACTGGTGTCTCTTCATCGTT 25

RESULT 29
US-11-136-527-146827
; Sequence 146827, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146827
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146827

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2676 CCTTCATGATGTTCTTCGACC 2700
Db 1 CCTTCATGATGTTCTTCGACC 25

RESULT 30
US-11-136-527-146828
; Sequence 146828, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
```

```
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146828
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146828

Query Match      0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2670 CCTCTTCCTTCATGGATTGTTCTT 2694
Db 1 CCTCTTCCTTCATGGATTGTTCTT 25

RESULT 31
US-11-136-527-146829
; Sequence 146829, Application US/11/136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146829
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146829

Query Match      0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2675 TCCTTCATGATTGTTCTTCTGAC 2699
Db 1 TCCTTCATGATTGTTCTTCTGAC 25

RESULT 32
US-11-136-527-146830
; Sequence 146830, Application US/11/136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146830
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146832

Query Match      0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2682 TGGATTGTTCTTCTGACCATGTT 2706
Db 1 TGGATTGTTCTTCTGACCATGTT 25

RESULT 33
US-11-136-527-146831
; Sequence 146831, Application US/11/136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146831
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146831

Query Match      0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2360 GAGAAAGACAGACAGACAGAAAGCC 2384
Db 1 GAGAAAGACAGACAGACAGAAAGCC 25

RESULT 34
US-11-136-527-146832
; Sequence 146832, Application US/11/136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146832
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146832

Query Match      0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 2677 CTTTCATGGATTGTTTCTTCTGACCA 2701
Db 1 CTTTCATGGATTGTTTCTTCTGACCA 25

RESULT 35
US-11-136-527-146833
; Sequence 146833, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146833
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146835
Query Match 0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2511 ACTCTGTTCTACTGTACATTGAAGA 2535
Db 1 ACTCTGTTCTACTGTACATTGAAGA 25

RESULT 36
US-11-136-527-146836
; Sequence 146836, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146836
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146836
Query Match 0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2504 GTCTGATACCTCTGTTCTACTGTACA 2528
Db 1 GTCTGATACCTCTGTTCTACTGTACA 25

RESULT 39
US-11-136-527-146837
; Sequence 146837, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146837
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146837
Query Match 0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2515 TGTCTTACTGTACATTGAAGACACA 2539
Db 1 TGTCTTACTGTACATTGAAGACACA 25

RESULT 37
US-11-136-527-146835
; Sequence 146835, Application US/11136527
; Publication No. US20050287570A1
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[illegible]

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RESULT 44
US-11-136-527-146842
; Sequence 146842, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146842
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146842

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2604 CTGGTGGTCTGCTTCATCGTTAGG 2628
DB 1 CTGGTGGTCTGCTTCATCGTTAGG 25

RESULT 45
US-11-136-527-146843
; Sequence 146843, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146843
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146843

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2516 GTTCTACTGTACATTGAAGAGACAT 2540
DB 1 GTTCTACTGTACATTGAAGAGACAT 25

RESULT 46
US-11-136-527-146844
; Sequence 146844, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
```

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; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146844
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-146844

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2620 ATCGTTAGGCTATGTCCTCCCAAGTC 2644
DB 1 ATCGTTAGGCTATGTCCTCCCAAGTC 25

RESULT 47
US-11-136-527-354218
; Sequence 354218, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354218
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354218

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2804 CTGCTGAAGTCAGTTGAAGGCACGA 2828
DB 1 CTGCTGAAGTCAGTTGAAGGCACGA 25

RESULT 48
US-11-136-527-354219
; Sequence 354219, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354219
; LENGTH: 25
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; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354219

Query Match      0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2568 ACATACATATATACCTCTGTGTGTAG 2592
Db 1 ACATACATATATACCTCTGTGTGTAG 25

RESULT 49
US-11-136-527-354220
; Sequence 354220, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354220
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354220

Query Match      0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2677 CTTTCATGGATTGTTCTTCTGACCA 2701
Db 1 CTTTCATGGATTGTTCTTCTGACCA 25

RESULT 50
US-11-136-527-354221
; Sequence 354221, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354221
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354221

Query Match      0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 2619 CATCGTTAGGCTATGTCTCCCAAGT 2643
Db 1 CATCGTTAGGCTATGTCTCCCAAGT 25

RESULT 51
US-11-136-527-354222
; Sequence 354222, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354222
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354222

Query Match      0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2711 AGTGTCCTCCAGGAGGTATACCTGG 2735
Db 1 AGTGTCCTCCAGGAGGTATACCTGG 25

RESULT 52
US-11-136-527-354223
; Sequence 354223, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354223
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354223

Query Match      0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2831 GCCTTCTGGGGTCACTGCTTCACT 2855
Db 1 GCCTTCTGGGGTCACTGCTTCACT 25

RESULT 53
US-11-136-527-354224
; Sequence 354224, Application US/11136527
```

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; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354224
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354224

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2716 CCACGAGAGGTATACCTGGGACCT 2740
      |||||
Db 1 CCCAGGAGGTATACCTGGGACCT 25

RESULT 54
US-11-136-527-354225
; Sequence 354225, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354225
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354225

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2431 GAAAGATATCCTGTTTGCACAAGA 2455
      |||||
Db 1 GAAAGATATCCTGTTTGCACAAGA 25

RESULT 55
US-11-136-527-354226
; Sequence 354226, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354226
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354226

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2399 ACTCTGGAACCCAGGACGAGTCTT 2423
      |||||
Db 1 ACTCTGGAACCCAGGACGAGTCTT 25

RESULT 56
US-11-136-527-354227
; Sequence 354227, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354227
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354227

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2392 TAGGAAAACCTCTGGAACCCAGGCAC 2416
      |||||
Db 1 TAGGAAAACCTCTGGAACCCAGGCAC 25

RESULT 57
US-11-136-527-354228
; Sequence 354228, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354228
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
```

US-11-136-527-354228

Query Match 0.9%; Score 25; DB 1; Length 25;  
Best Local Similarity 100.0%; Pred. No. 1.7e+02;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2700 CATGTTTTGGAGTGCCCGAGGA 2724  
|||||  
Db 1 CATGTTTTGGAGTGCCCGAGGA 25

RESULT 58

US-11-136-527-354229  
; Sequence 354229, Application US/11136527  
; Publication No. US20050287570A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William M  
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes  
; FILE REFERENCE: 031896-041000 (AM101086)  
; CURRENT APPLICATION NUMBER: US/11/136,527  
; CURRENT FILING DATE: 2005-05-25  
; PRIOR APPLICATION NUMBER: US 60/574,294  
; PRIOR FILING DATE: 2005-05-26  
; NUMBER OF SEQ ID NOS: 362830  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 354229  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: Probe  
US-11-136-527-354229

Query Match 0.9%; Score 25; DB 1; Length 25;  
Best Local Similarity 100.0%; Pred. No. 1.7e+02;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2441 CTTGTTTGACAAAGACTGTTGGAAA 2465  
|||||  
Db 1 CTTGTTTGACAAAGACTGTTGGAAA 25

RESULT 59

US-11-136-527-354230  
; Sequence 354230, Application US/11136527  
; Publication No. US20050287570A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William M  
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes  
; FILE REFERENCE: 031896-041000 (AM101086)  
; CURRENT APPLICATION NUMBER: US/11/136,527  
; CURRENT FILING DATE: 2005-05-25  
; PRIOR APPLICATION NUMBER: US 60/574,294  
; PRIOR FILING DATE: 2005-05-26  
; NUMBER OF SEQ ID NOS: 362830  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 354230  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: Probe  
US-11-136-527-354230

Query Match 0.9%; Score 25; DB 1; Length 25;  
Best Local Similarity 100.0%; Pred. No. 1.7e+02;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2302 TCTCGTCCCAACTATGCCCATGCTGA 2326  
|||||  
Db 1 TCTCGTCCCAACTATGCCCATGCTGA 25

RESULT 60

US-11-136-527-354231  
; Sequence 354231, Application US/11136527  
; Publication No. US20050287570A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William M  
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes  
; FILE REFERENCE: 031896-041000 (AM101086)  
; CURRENT APPLICATION NUMBER: US/11/136,527  
; CURRENT FILING DATE: 2005-05-25  
; PRIOR APPLICATION NUMBER: US 60/574,294  
; PRIOR FILING DATE: 2005-05-26  
; NUMBER OF SEQ ID NOS: 362830  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 354231  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: Probe  
US-11-136-527-354231

Query Match 0.9%; Score 25; DB 1; Length 25;  
Best Local Similarity 100.0%; Pred. No. 1.7e+02;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2340 TCTTAGAGCGCACCAACGTGAGAA 2364  
|||||  
Db 1 TCTTAGAGCGCACCAACGTGAGAA 25

RESULT 61

US-11-136-527-354232  
; Sequence 354232, Application US/11136527  
; Publication No. US20050287570A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William M  
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes  
; FILE REFERENCE: 031896-041000 (AM101086)  
; CURRENT APPLICATION NUMBER: US/11/136,527  
; CURRENT FILING DATE: 2005-05-25  
; PRIOR APPLICATION NUMBER: US 60/574,294  
; PRIOR FILING DATE: 2005-05-26  
; NUMBER OF SEQ ID NOS: 362830  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 354232  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: Probe  
US-11-136-527-354232

Query Match 0.9%; Score 25; DB 1; Length 25;  
Best Local Similarity 100.0%; Pred. No. 1.7e+02;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2519 CTACTGTACATTGAAGACATATA 2543  
|||||  
Db 1 CTACTGTACATTGAAGACATATA 25

RESULT 62

US-11-136-527-354233  
; Sequence 354233, Application US/11136527  
; Publication No. US20050287570A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William M

```
/ TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
/ FILE REFERENCE: 031896-041000 (AM101086)
/ CURRENT APPLICATION NUMBER: US/11/136,527
/ CURRENT FILING DATE: 2005-05-25
/ PRIOR APPLICATION NUMBER: US 60/574,294
/ PRIOR FILING DATE: 2005-05-26
/ NUMBER OF SEQ ID NOS: 362830
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 354233
/ LENGTH: 25
/ TYPE: DNA
/ ORGANISM: Artificial
/ FEATURE:
/ OTHER INFORMATION: Probe
US-11-136-527-354233

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2751 CTGGGTGGTCCAGGCTGCTCTCAC 2775
Db 1 CTGGGTGGTCCAGGCTGCTCTCAC 25

RESULT 63
US-11-136-527-354234
/ Sequence 354234, Application US/11/136527
/ Publication No. US20050287570A1
/ GENERAL INFORMATION:
/ APPLICANT: Wyeth
/ APPLICANT: Mounts, William M
/ TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
/ FILE REFERENCE: 031896-041000 (AM101086)
/ CURRENT APPLICATION NUMBER: US/11/136,527
/ CURRENT FILING DATE: 2005-05-25
/ PRIOR APPLICATION NUMBER: US 60/574,294
/ PRIOR FILING DATE: 2005-05-26
/ NUMBER OF SEQ ID NOS: 362830
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 354234
/ LENGTH: 25
/ TYPE: DNA
/ ORGANISM: Artificial
/ FEATURE:
/ OTHER INFORMATION: Probe
US-11-136-527-354234

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2493 GAGCCATCTGGGCTGATCTCTGT 2517
Db 1 GAGCCATCTGGGCTGATCTCTGT 25

RESULT 64
US-11-136-527-354235
/ Sequence 354235, Application US/11/136527
/ Publication No. US20050287570A1
/ GENERAL INFORMATION:
/ APPLICANT: Wyeth
/ APPLICANT: Mounts, William M
/ TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
/ FILE REFERENCE: 031896-041000 (AM101086)
/ CURRENT APPLICATION NUMBER: US/11/136,527
/ CURRENT FILING DATE: 2005-05-25
/ PRIOR APPLICATION NUMBER: US 60/574,294
/ PRIOR FILING DATE: 2005-05-26
/ NUMBER OF SEQ ID NOS: 362830
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 354235
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```
/ LENGTH: 25
/ TYPE: DNA
/ ORGANISM: Artificial
/ FEATURE:
/ OTHER INFORMATION: Probe
US-11-136-527-354235

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2447 TGCACAAGACTGGTGGAAAAATCTC 2471
Db 1 TGCACAAGACTGGTGGAAAAATCTC 25

RESULT 65
US-11-136-527-354236
/ Sequence 354236, Application US/11/136527
/ Publication No. US20050287570A1
/ GENERAL INFORMATION:
/ APPLICANT: Wyeth
/ APPLICANT: Mounts, William M
/ TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
/ FILE REFERENCE: 031896-041000 (AM101086)
/ CURRENT APPLICATION NUMBER: US/11/136,527
/ CURRENT FILING DATE: 2005-05-25
/ PRIOR APPLICATION NUMBER: US 60/574,294
/ PRIOR FILING DATE: 2005-05-26
/ NUMBER OF SEQ ID NOS: 362830
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 354236
/ LENGTH: 25
/ TYPE: DNA
/ ORGANISM: Artificial
/ FEATURE:
/ OTHER INFORMATION: Probe
US-11-136-527-354236

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2793 CAGCAGGTGGCCTGCTGAAGTCAGT 2817
Db 1 CAGCAGGTGGCCTGCTGAAGTCAGT 25

RESULT 66
US-11-136-527-354237
/ Sequence 354237, Application US/11/136527
/ Publication No. US20050287570A1
/ GENERAL INFORMATION:
/ APPLICANT: Wyeth
/ APPLICANT: Mounts, William M
/ TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
/ FILE REFERENCE: 031896-041000 (AM101086)
/ CURRENT APPLICATION NUMBER: US/11/136,527
/ CURRENT FILING DATE: 2005-05-25
/ PRIOR APPLICATION NUMBER: US 60/574,294
/ PRIOR FILING DATE: 2005-05-26
/ NUMBER OF SEQ ID NOS: 362830
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 354237
/ LENGTH: 25
/ TYPE: DNA
/ ORGANISM: Artificial
/ FEATURE:
/ OTHER INFORMATION: Probe
US-11-136-527-354237

Query Match          0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
```

```
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2744 CTCCAGCTGGGTGCCAGGCTG 2768
Db 1 CTCCAGCTGGGTGCCAGGCTG 25

RESULT 67
US-11-136-527-354238
; Sequence 354238, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354238
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354238

Query Match 0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2826 CGATTGCCCTTCGGGTCACTGCT 2850
Db 1 CGATTGCCCTTCGGGTCACTGCT 25

RESULT 68
US-11-136-527-354239
; Sequence 354239, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354239
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354239

Query Match 0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2818 TGAAGCACGATTCCTTCGGGG 2842
Db 1 TGAAGCACGATTCCTTCGGGG 25

RESULT 69
US-11-136-527-354240
```

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; Sequence 354240, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354240
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354240

Query Match 0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2823 GCACGATTGCCCTTCGGGTCACT 2847
Db 1 GCACGATTGCCCTTCGGGTCACT 25

RESULT 70
US-11-136-527-354241
; Sequence 354241, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354241
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354241

Query Match 0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2481 TTCAGGGCCAGCCATCTGGGT 2505
Db 1 TTCAGGGCCAGCCATCTGGGT 25

RESULT 71
US-11-136-527-354242
; Sequence 354242, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
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; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354242
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354242

Query Match      0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2351 CACCAACGTGAGAAAGACAGACAGA 2375
DB 1 CACCAACGTGAGAAAGACAGACAGA 25

RESULT 72
US-11-136-527-354243
; Sequence 354243, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354243
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354243

Query Match      0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2614 GTCCTCATCGTTAGGCTATGTCTCC 2638
DB 1 GTCCTCATCGTTAGGCTATGTCTCC 25

RESULT 73
US-11-136-527-354244
; Sequence 354244, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354244
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354243

Query Match      0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2614 GTCCTCATCGTTAGGCTATGTCTCC 2638
DB 1 GTCCTCATCGTTAGGCTATGTCTCC 25

RESULT 74
US-11-136-527-354245
; Sequence 354245, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354245
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354245

Query Match      0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2675 TCCTTCATGATGTTTCTTCTCTGAC 2699
DB 1 TCCTTCATGATGTTTCTTCTCTGAC 25

RESULT 75
US-11-136-527-354246
; Sequence 354246, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354246
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354246

Query Match      0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2707 TTGGAGTGTCCAGGAGGTATAC 2731
DB 1 TTGGAGTGTCCAGGAGGTATAC 2731
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Db      1  TTGGAGTGTCCCGAGGAGGTATAC 25

RESULT 76
US-11-136-527-354247
; Sequence 354247, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354247
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354247

Query Match      0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2759  TCCAGGCTGCTCTCACTTGGGGGT 2783
          |||||
Db      1  TCCAGGCTGCTCTCACTTGGGGGT 25

RESULT 77
US-11-136-527-354248
; Sequence 354248, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354248
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354248

Query Match      0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2308  CCAACTATGCCCATGCTGAAGTCT 2332
          |||||
Db      1  CCAACTATGCCCATGCTGAAGTCT 25

RESULT 78
US-11-136-527-354249
; Sequence 354249, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
```

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; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354249
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354249

Query Match      0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2275  TAAACACAGAGACCTGCCAAGACGC 2299
          |||||
Db      1  TAAACACAGAGACCTGCCAAGACGC 25

RESULT 79
US-11-136-527-354250
; Sequence 354250, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354250
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354250

Query Match      0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2420  TCTTTTGCTGGGAAGATATCCTTG 2444
          |||||
Db      1  TCTTTTGCTGGGAAGATATCCTTG 25

RESULT 80
US-11-136-527-354251
; Sequence 354251, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
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```
; SEQ ID NO 354251
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354251

Query Match
Best Local Similarity 100.0%; Score 25; DB 1; Length 25;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2311 ACTATGCCCATGCTGAAGTCTCTCAC 2335
Db 1 ACTATGCCCATGCTGAAGTCTCTCAC 25

RESULT 81
US-11-136-527-354252
; Sequence 354252, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354252
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354252

Query Match
Best Local Similarity 100.0%; Score 25; DB 1; Length 25;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2458 GGTGGAATAATCTCCCATGCAACTC 2482
Db 1 GGTGGAATAATCTCCCATGCAACTC 25

RESULT 82
US-11-136-527-354253
; Sequence 354253, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354253
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354253

Query Match
Best Local Similarity 100.0%; Score 25; DB 1; Length 25;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2457 TGGTGGAAAAATCTCCCATGCAACT 2481
Db 1 TGGTGGAAAAATCTCCCATGCAACT 25

RESULT 83
US-11-136-527-354254
; Sequence 354254, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354254
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354254

Query Match
Best Local Similarity 100.0%; Score 25; DB 1; Length 25;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2394 GGAAAACTCTGGAACCCAGGCACGA 2418
Db 1 GGAAAACTCTGGAACCCAGGCACGA 25

RESULT 84
US-11-136-527-354255
; Sequence 354255, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354255
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354255

Query Match
Best Local Similarity 100.0%; Score 25; DB 1; Length 25;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2380 AAGCAGAGGCTTAGGAAAACTCTG 2404
Db 1 AAGCAGAGGCTTAGGAAAACTCTG 25

RESULT 85
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US-11-136-527-354256
; Sequence 354256, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354256
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354256
Query Match 0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2303 CTCGTCCAACTATGCCCATGCTGAA 2327
Db 1 CTCGTCCAACTATGCCCATGCTGAA 25

RESULT 86
US-11-136-527-354257
; Sequence 354257, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354257
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354257
Query Match 0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2373 AGACAGAAAGCCAGAGGCTTAGGAA 2397
Db 1 AGACAGAAAGCCAGAGGCTTAGGAA 25

RESULT 87
US-11-136-527-354258
; Sequence 354258, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354258
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354258
Query Match 0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2813 TCAGTTGAAGCAGCATGTCCTTC 2837
Db 1 TCAGTTGAAGCAGCATGTCCTTC 25

RESULT 88
US-11-136-527-354259
; Sequence 354259, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354259
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354259
Query Match 0.9%; Score 25; DB 1; Length 25;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2688 GTTCTCTGACCATGTTTGGAG 2712
Db 1 GTTCTCTGACCATGTTTGGAG 25

RESULT 89
US-11-136-527-354260
; Sequence 354260, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354260
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
```

; FEATURE:  
; OTHER INFORMATION: Probe  
US-11-136-527-354260

Query Match 0.9%; Score 25; DB 1; Length 25;  
Best Local Similarity 100.0%; Pred. No. 1.7e+02;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2624 TTAGGCTATGTCTCCCAAGTCTCT 2648

DB 1 TTAGGCTATGTCTCCCAAGTCTCT 25

RESULT 90

US-11-136-527-354261  
; Sequence 354261, Application US/11136527  
; Publication No. US20050287570A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William M  
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes  
; FILE REFERENCE: 031896-041000 (AM101086)  
; CURRENT APPLICATION NUMBER: US/11/136,527  
; CURRENT FILING DATE: 2005-05-25  
; PRIOR APPLICATION NUMBER: US 60/574,294  
; PRIOR FILING DATE: 2005-05-26  
; NUMBER OF SEQ ID NOS: 362830  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 354261  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: Probe  
US-11-136-527-354261

Query Match 0.9%; Score 25; DB 1; Length 25;  
Best Local Similarity 100.0%; Pred. No. 1.7e+02;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2787 CCTGCCACGAGTGGCTGCTGAA 2811

DB 1 CCTGCCACGAGTGGCTGCTGAA 25

RESULT 91

US-11-136-527-354262  
; Sequence 354262, Application US/11136527  
; Publication No. US20050287570A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William M  
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes  
; FILE REFERENCE: 031896-041000 (AM101086)  
; CURRENT APPLICATION NUMBER: US/11/136,527  
; CURRENT FILING DATE: 2005-05-25  
; PRIOR APPLICATION NUMBER: US 60/574,294  
; PRIOR FILING DATE: 2005-05-26  
; NUMBER OF SEQ ID NOS: 362830  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 354262  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: Probe  
US-11-136-527-354262

Query Match 0.9%; Score 25; DB 1; Length 25;  
Best Local Similarity 100.0%; Pred. No. 1.7e+02;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2414 CACGAATCTTTGCTGGGAAGATA 2438

DB 1 CACGAATCTTTGCTGGGAAGATA 25

RESULT 92

US-11-136-527-354263  
; Sequence 354263, Application US/11136527  
; Publication No. US20050287570A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William M  
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes  
; FILE REFERENCE: 031896-041000 (AM101086)  
; CURRENT APPLICATION NUMBER: US/11/136,527  
; CURRENT FILING DATE: 2005-05-25  
; PRIOR APPLICATION NUMBER: US 60/574,294  
; PRIOR FILING DATE: 2005-05-26  
; NUMBER OF SEQ ID NOS: 362830  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 354263  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: Probe  
US-11-136-527-354263

Query Match 0.9%; Score 25; DB 1; Length 25;  
Best Local Similarity 100.0%; Pred. No. 1.7e+02;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2601 CTACTGGTGTCTCTTCATCGTT 2625

DB 1 CTACTGGTGTCTCTTCATCGTT 25

RESULT 93

US-10-310-914A-221991/c  
; Sequence 221991, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200, CPU001  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 221991  
; LENGTH: 28  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-221991

Query Match 0.8%; Score 23.8; DB 1; Length 28;  
Best Local Similarity 92.6%; Pred. No. 3.5e+02;  
Matches 25; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 256 GCCGCCACACCTCTGCTCTCTCTC 282

DB 28 GCCGCCACACCTCTGCTCTCTCTC 2

RESULT 94

US-11-121-849-154868  
; Sequence 154868, Application US/11121849  
; Publication No. US20050272080A1  
; GENERAL INFORMATION:  
; APPLICANT: John Palma  
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S  
; TITLE OF INVENTION: Microarrays

```
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; PRIOR FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 154868
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-154868
```

```
Query Match 0.8%; Score 23.4; DB 1; Length 25;
Best Local Similarity 96.0%; Pred. No. 2.9e+02;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1911 GTCACCCATTACTGCAAGTCTGAG 1935
Db 1 GTCACCACTGACTGCAAGTCTGAG 25
```

```
RESULT 95
US-11-121-849-227096
; Sequence 227096, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; PRIOR FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 227096
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-227096
```

```
Query Match 0.8%; Score 23.4; DB 1; Length 25;
Best Local Similarity 96.0%; Pred. No. 2.9e+02;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 2303 CTCGTCAACTATGCCATGCTGAA 2327
Db 1 CTCGTCAACTATGCCAGGCTGAA 25
```

```
RESULT 96
US-11-121-849-227097
; Sequence 227097, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; PRIOR FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 227097
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-227097
```

```
Query Match 0.8%; Score 23.4; DB 1; Length 25;
Best Local Similarity 96.0%; Pred. No. 2.9e+02;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 2339 CTCTTAGAGCGGCACCAACGTGAGA 2363
Db 1 CTCTTAAGCGGCACCAACGTGAGA 25
```

```
RESULT 97
US-11-121-849-227102
; Sequence 227102, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; PRIOR FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 227102
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-227102
```

```
Query Match 0.8%; Score 23.4; DB 1; Length 25;
Best Local Similarity 96.0%; Pred. No. 2.9e+02;
Matches 24; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 2437 TATCCTTGTTTGCACAGACTGGTG 2461
Db 1 TATCCTTGTTTGCACAGGACTGGTG 25
```

```
RESULT 98
US-10-310-914A-238168/c
; Sequence 238168, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 238168
; LENGTH: 26
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-238168
```

```
Query Match 0.8%; Score 22.8; DB 1; Length 26;
Best Local Similarity 92.3%; Pred. No. 3.8e+02;
Matches 24; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 649 AGCGGCAGCAGCGCGCGCGGGGG 674
Db 26 AGCGGCAGCGCGCGCGCGGGGG 1
```

```
RESULT 99
US-10-310-914A-969289/c
; Sequence 969289, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 96289
; LENGTH: 26
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-969289

Query Match      0.8%; Score 22.8; DB 1; Length 26;
Best Local Similarity 92.3%; Pred. No. 3 8e+02;
Matches 24; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 649 AGCGCAGCAGCGCGCGCGCGGGG 674
Db 26 AGCGCAGCAGCGCGCGCGCGGG 1

RESULT 100
US-10-310-914A-969290/c
; Sequence 969290, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 969290
; LENGTH: 26
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-969290

Query Match      0.8%; Score 22.8; DB 1; Length 26;
Best Local Similarity 92.3%; Pred. No. 3 8e+02;
Matches 24; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 649 AGCGCAGCAGCGCGCGCGCGGGG 674
Db 26 AGCGCAGCAGCGCGCGCGCGGG 1

RESULT 101
US-10-310-914A-229031/c
; Sequence 229031, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 229031
; LENGTH: 27
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-229031
```

```
Query Match      0.8%; Score 22.2; DB 1; Length 27;
Best Local Similarity 88.9%; Pred. No. 5.1e+02;
Matches 24; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGCGGGGCTG 677
Db 27 CGGCAGCAGCGCGCGCGCGAGTGGCGG 1

RESULT 102
US-10-310-914A-339244/c
; Sequence 339244, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 339244
; LENGTH: 27
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-339244

Query Match      0.8%; Score 22.2; DB 1; Length 27;
Best Local Similarity 88.9%; Pred. No. 5.1e+02;
Matches 24; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 642 AGGCAGCAGCGCGCGCGCGGGCGG 668
Db 27 AGGCAGCAGCGCGCGCGCGGGCGG 1

RESULT 103
US-10-310-914A-838210
; Sequence 838210, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 838210
; LENGTH: 27
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-838210

Query Match      0.8%; Score 22.2; DB 1; Length 27;
Best Local Similarity 88.9%; Pred. No. 5.1e+02;
Matches 24; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCAGCAGCGCGCGCGG 670
Db 1 GCAGCAGCGCGCGCGCGCGCGCGCGG 27

RESULT 104
US-10-858-341-808/c
; Sequence 808, Application US/10858341
; Publication No. US20050287667A1
; GENERAL INFORMATION:
; APPLICANT: Sheikhnajad, Reza
```

```
; APPLICANT: Sooch, Mina P.
; APPLICANT: Goodwin, Neal
; APPLICANT: Olson, David
; TITLE OF INVENTION: Methods and Compositions for the Inhibition of Gene Expression
; FILE REFERENCE: PRONAI-09053
; CURRENT APPLICATION NUMBER: US/10/858,341
; CURRENT FILING DATE: 2004-06-01
; NUMBER OF SEQ ID NOS: 1439
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 808
; LENGTH: 27
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (3)..(3)
; OTHER INFORMATION: methylated C nucleotide
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (6)..(6)
; OTHER INFORMATION: methylated C nucleotide
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (9)..(9)
; OTHER INFORMATION: methylated C nucleotide
; US-10-858-341-808

Query Match          0.8%; Score 22.2; DB 1; Length 27;
Best Local Similarity 88.9%; Pred. No. 5.1e+02;
Matches 24; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 643 GGCAGCAGCGGCAGCAGCGCGCGCGC 669
Db 27 GCGCGCGGAGGCAGCAGCGCGCGCGC 1

RESULT 105
US-10-310-914A-706718
; Sequence 706718, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 706718
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
; US-10-310-914A-706718

Query Match          0.8%; Score 22; DB 1; Length 22;
Best Local Similarity 77.3%; Pred. No. 3.1e+02;
Matches 17; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 273 CCTCTCTCTCTCTCCACACCTC 294
Db 1 CCUCCUCCUCCUCCACCAACCUC 22

RESULT 106
US-10-310-914A-163375/c
; Sequence 163375, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
```

```
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 163375
; LENGTH: 25
; TYPE: RNA
; ORGANISM: Human
; US-10-310-914A-163375

Query Match          0.8%; Score 21.8; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 4.7e+02;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGCGCGCGCGG 668
Db 25 GCAGCAGCGGCAGCGCGCGCGCGCGG 1

RESULT 107
US-10-310-914A-221993/c
; Sequence 221993, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 221993
; LENGTH: 25
; TYPE: RNA
; ORGANISM: Human
; US-10-310-914A-221993

Query Match          0.8%; Score 21.8; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 4.7e+02;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 249 AGAAGGGCGCGCCACCCACCTCTCTGC 273
Db 25 AGAGGGGGCGCGCCACCGCTCTCTGC 1

RESULT 108
US-10-310-914A-353983/c
; Sequence 353983, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 353983
; LENGTH: 25
; TYPE: RNA
; ORGANISM: Human
; US-10-310-914A-353983

Query Match          0.8%; Score 21.8; DB 1; Length 25;
```



```
Best Local Similarity 92.0%; Pred. No. 4.7e+02;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCAGCAGCGCGCGCGG 668
Db 25 GCAGCAGCGCGCGCGCGCGCGCGCGG 1

RESULT 109
US-10-310-914A-381472/c
; Sequence 381472, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; CURRENT APPLICATION NUMBER: US/10/310,914A
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 381472
; LENGTH: 25
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-381472

Query Match 0.8%; Score 21.8; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 4.7e+02;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCAGCAGCGCGCGCGG 668
Db 25 GCAGCAGCGCGCGCGCGCGCGCGCGG 1

RESULT 110
US-10-310-914A-562898/c
; Sequence 562898, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; CURRENT APPLICATION NUMBER: US/10/310,914A
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 562898
; LENGTH: 25
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-562898

Query Match 0.8%; Score 21.8; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 4.7e+02;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCAGCAGCGCGCGCGG 668
Db 25 GCAGCAGCGCGCGCGCGCGCGCGCGG 1

RESULT 111
US-10-310-914A-681400/c
; Sequence 681400, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; CURRENT APPLICATION NUMBER: US/10/310,914A
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 681400
; LENGTH: 25
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-681400
```

```
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 681400
; LENGTH: 25
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-681400

Query Match 0.8%; Score 21.8; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 4.7e+02;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCGCAGCGCGCGCGCGCGCGG 675
Db 25 CGGCGCAGCGCGCGCGCGCGGCTGGGC 1

RESULT 112
US-11-121-849-154864
; Sequence 154864, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; FILE OF INVENTION: Microarrays
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 154864
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-154864

Query Match 0.8%; Score 21.8; DB 1; Length 25;
Best Local Similarity 92.0%; Pred. No. 4.7e+02;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1860 GAAGCTTCCCAAGAAACGGAAGAAG 1884
Db 1 GAAGCTGCCCAAGAAACGGAAGAAG 25

RESULT 113
US-11-121-849-154867
; Sequence 154867, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; FILE OF INVENTION: Microarrays
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 154867
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-154867
```

Query Match 0.8%; Score 21.8; DB 1; Length 25;  
Best Local Similarity 92.0%; Pred. No. 4.7e+02; Indels 2; Gaps 0;  
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 1907 TTGAGTCACCCATTACTGCAAGTC 1931  
Db 1 TGGAGTCACCCATGTTACTGCAAGTC 25  
  
RESULT 114  
US-11-121-849-154869  
; Sequence 154869, Application US/11121849  
; Publication No. US20050272080A1  
; GENERAL INFORMATION:  
; APPLICANT: John Palma  
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S  
; FILE REFERENCE: 3684.1  
; CURRENT APPLICATION NUMBER: US/11/121,849  
; CURRENT FILING DATE: 2005-05-03  
; PRIOR APPLICATION NUMBER: 60/567,949  
; PRIOR FILING DATE: 2004-05-03  
; NUMBER OF SEQ ID NOS: 673904  
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1  
; SEQ ID NO 154869  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-11-121-849-154869

Query Match 0.8%; Score 21.8; DB 1; Length 25;  
Best Local Similarity 92.0%; Pred. No. 4.7e+02; Indels 2; Gaps 0;  
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 1951 GACAGCACCTACAGTGACACGACC 1975  
Db 1 GACAGCACCTGCAGTGATACGACC 25  
  
RESULT 115  
US-11-121-849-227104  
; Sequence 227104, Application US/11121849  
; Publication No. US20050272080A1  
; GENERAL INFORMATION:  
; APPLICANT: John Palma  
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S  
; FILE REFERENCE: 3684.1  
; CURRENT APPLICATION NUMBER: US/11/121,849  
; CURRENT FILING DATE: 2005-05-03  
; PRIOR APPLICATION NUMBER: 60/567,949  
; PRIOR FILING DATE: 2004-05-03  
; NUMBER OF SEQ ID NOS: 673904  
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1  
; SEQ ID NO 227104  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-11-121-849-227104

Query Match 0.8%; Score 21.8; DB 1; Length 25;  
Best Local Similarity 92.0%; Pred. No. 4.7e+02; Indels 2; Gaps 0;  
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 2490 CCAGAGCCATCTGGTCTGATCTC 2514  
Db 1 CCAGAGCCATCTGGTCTGATGTC 25  
  
RESULT 116  
US-11-136-527-128258  
; Sequence 128258, Application US/11136527  
; Publication No. US20050287570A1

GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes  
; FILE REFERENCE: 031896-041000 (AM101086)  
; CURRENT APPLICATION NUMBER: US/11/136,527  
; CURRENT FILING DATE: 2005-05-25  
; PRIOR APPLICATION NUMBER: US 60/574,294  
; PRIOR FILING DATE: 2005-05-26  
; NUMBER OF SEQ ID NOS: 362830  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 128258  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: Probe  
US-11-136-527-128258

Query Match 0.8%; Score 21.8; DB 1; Length 25;  
Best Local Similarity 92.0%; Pred. No. 4.7e+02; Indels 2; Gaps 0;  
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 2358 GTGAGAAAGACAGACAGACAGAAAG 2382  
Db 1 GTGAGAGACAGACAGACAGACAG 25

RESULT 117  
US-10-310-914A-1036932/c  
; Sequence 1036932, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1036932  
; LENGTH: 26  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1036932

Query Match 0.8%; Score 21.8; DB 1; Length 26;  
Best Local Similarity 92.0%; Pred. No. 5.2e+02; Indels 2; Gaps 0;  
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 647 GCAGCGCGACGCGCGCGCGCGG 671  
Db 25 GCAGCGCGCGCGCGCGCGCGG 1

RESULT 118  
US-10-310-914A-339243/c  
; Sequence 339243, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 339243  
; LENGTH: 26

; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-339243

Query Match 0.8%; Score 21.8; DB 1; Length 26;  
Best Local Similarity 92.0%; Pred. No. 5.2e+02;  
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCGGCGGCGGCGGCGGCGG 674  
|||||  
DB 25 GCGGCGGCGGCGGCGGCGGCGG 1

## RESULT 119

US-10-310-914A-341346/c  
; Sequence 341346, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 341346  
; LENGTH: 26  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-341346

Query Match 0.8%; Score 21.8; DB 1; Length 26;  
Best Local Similarity 92.0%; Pred. No. 5.2e+02;  
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 647 GCAGCGGCGGCGGCGGCGGCGG 671  
|||||  
DB 25 GCAGCGGCGGCGGCGGCGGCGG 1

## RESULT 120

US-10-310-914A-353984/c  
; Sequence 353984, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 353984  
; LENGTH: 26  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-353984

Query Match 0.8%; Score 21.8; DB 1; Length 26;  
Best Local Similarity 92.0%; Pred. No. 5.2e+02;  
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCGGCGGCGGCGGCGGCGG 668  
|||||  
DB 25 GCAGCGGCGGCGGCGGCGGCGG 1

## RESULT 121

US-10-310-914A-548890/c

; Sequence 548890, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 548890  
; LENGTH: 26  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-548890

Query Match 0.8%; Score 21.8; DB 1; Length 26;  
Best Local Similarity 92.0%; Pred. No. 5.2e+02;  
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 276 CCTCCTCTCCACCACTCTCTCTC 300  
|||||  
DB 25 CCTCCTCTCCACCACTCTCTCTC 1

## RESULT 122

US-10-310-914A-89785/c  
; Sequence 89785, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 89785  
; LENGTH: 26  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-89785

Query Match 0.8%; Score 21.8; DB 1; Length 26;  
Best Local Similarity 92.0%; Pred. No. 5.2e+02;  
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 647 GCAGCGGCGGCGGCGGCGGCGG 671  
|||||  
DB 25 GCAGCGGCGGCGGCGGCGGCGG 1

## RESULT 123

US-10-310-914A-238180/c  
; Sequence 238180, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 238180  
; LENGTH: 27  
; TYPE: RNA





```
Query Match      0.7%; Score 21.4; DB 1; Length 25;
Best Local Similarity 95.7%; Pred. No. 5.3e+02;
Matches 22; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 276 CCTCCTCCTCCACCACTCTCTCC 298
Db 24 CCTCCTCCTCCACCACTCTCTGC 2

RESULT 134
US-10-310-914A-1286270
; Sequence 1286270, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1286270
; LENGTH: 26
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1286270

Query Match      0.7%; Score 21.2; DB 1; Length 26;
Best Local Similarity 65.4%; Pred. No. 6.3e+02;
Matches 17; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

QY 275 TCTCCTCCTCCACCACTCTCTCTC 300
Db 1 UCCUCCUCCUCCUCCUCCUCCUCC 26

RESULT 135
US-10-310-914A-255939/c
; Sequence 255939, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 255939
; LENGTH: 26
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-255939

Query Match      0.7%; Score 21.2; DB 1; Length 26;
Best Local Similarity 88.5%; Pred. No. 6.3e+02;
Matches 23; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 646 AGCAGCGCGCAGCAGCGCGCGCGG 671
Db 26 AGCGCGCGCGCGCGCGCGCGCGG 1

RESULT 136
US-10-310-914A-380381/c
; Sequence 380381, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
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; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 380381
; LENGTH: 26
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-380381

Query Match      0.7%; Score 21.2; DB 1; Length 26;
Best Local Similarity 88.5%; Pred. No. 6.3e+02;
Matches 23; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 643 GCAGCAGCGCGCAGCAGCGCGCGG 668
Db 26 GGCAGCAGCGCGCGCAGCAGCGCGG 1

RESULT 137
US-10-310-914A-51710/c
; Sequence 51710, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 51710
; LENGTH: 26
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-51710

Query Match      0.7%; Score 21.2; DB 1; Length 26;
Best Local Similarity 88.5%; Pred. No. 6.3e+02;
Matches 23; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 646 AGCAGCGCGCAGCAGCGCGCGCGG 671
Db 26 AGCGCGCGCGCGCGCGCGCGCGG 1

RESULT 138
US-10-310-914A-704966
; Sequence 704966, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 704966
; LENGTH: 26
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-704966
```

```
Query Match          0.7%; Score 21.2; DB 1; Length 26;
Best Local Similarity 65.4%; Pred. No. 6.3e+02;
Matches 17; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

QY 275 TCTCTCTCTCCACCACTCTCTC 300
Db :|||:|||||:|||||:|||||:|||||
1 UCUCUCCUCCUCCUCCACCUCCUCC 26

RESULT 139
US-10-310-914A-625783/c
; Sequence 625783, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 625783
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-625783

Query Match          0.7%; Score 21; DB 1; Length 22;
Best Local Similarity 100.0%; Pred. No. 4.2e+02;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGGG 671
Db |||||:|||||:|||||:|||||:|||||
22 CGGCAGCAGCGCGCGCGGGCGG 2

RESULT 140
US-10-310-914A-253748
; Sequence 253748, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 253748
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-253748

Query Match          0.7%; Score 21; DB 1; Length 24;
Best Local Similarity 100.0%; Pred. No. 5.4e+02;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGGG 671
Db |||||:|||||:|||||:|||||:|||||
1 CGGCAGCAGCGCGCGCGGGCGG 21

RESULT 141
US-10-310-914A-238166/c
; Sequence 238166, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
```

```
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 238166
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-238166

Query Match          0.7%; Score 20.8; DB 1; Length 24;
Best Local Similarity 91.7%; Pred. No. 5.7e+02;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGGG 674
Db |||||:|||||:|||||:|||||:|||||
24 CGGCAGCGCGCGCGCGGGCGG 1

RESULT 142
US-10-310-914A-238167/c
; Sequence 238167, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 238167
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-238167

Query Match          0.7%; Score 20.8; DB 1; Length 24;
Best Local Similarity 91.7%; Pred. No. 5.7e+02;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGGG 674
Db |||||:|||||:|||||:|||||:|||||
24 CGGCAGCGCGCGCGCGGGCGG 1

RESULT 143
US-10-310-914A-238179/c
; Sequence 238179, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 238179
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-238179

Query Match          0.7%; Score 20.8; DB 1; Length 24;
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```
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 562897
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-562897

Query Match          0.7%; Score 20.8; DB 1; Length 24;
Best Local Similarity 91.7%; Pred. No. 5.7e+02;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCGCGCGCGCGCGCGG 674
      ||||| ||||| ||||| ||||| |||||
Db 24 CGGCAGCGCGCGCGCGCGCGG 1

RESULT 144
US-10-310-914A-339242/c
; Sequence 339242, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 339242
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-339242

Query Match          0.7%; Score 20.8; DB 1; Length 24;
Best Local Similarity 91.7%; Pred. No. 5.7e+02;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCGCGCGCGCGCGCGG 674
      ||||| ||||| ||||| ||||| |||||
Db 24 CGGCAGCGCGCGCGCGCGCGG 1

RESULT 145
US-10-310-914A-416390/c
; Sequence 416390, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 416390
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-416390

Query Match          0.7%; Score 20.8; DB 1; Length 24;
Best Local Similarity 91.7%; Pred. No. 5.7e+02;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 645 CAGCAGCGCGCAGCGCGCGCGG 668
      ||||| ||||| ||||| ||||| |||||
Db 24 CGGCAGCGCGCGCGCGCGCGG 1

RESULT 146
US-10-310-914A-562897/c
; Sequence 562897, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
```

```
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 562897
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-562897

Query Match          0.7%; Score 20.8; DB 1; Length 24;
Best Local Similarity 91.7%; Pred. No. 5.7e+02;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 645 CAGCAGCGCGCAGCGCGCGCGG 668
      ||||| ||||| ||||| ||||| |||||
Db 24 CGGCAGCGCGCGCGCGCGCGG 1

RESULT 147
US-10-310-914A-79760/c
; Sequence 79760, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 79760
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-79760

Query Match          0.7%; Score 20.8; DB 1; Length 24;
Best Local Similarity 91.7%; Pred. No. 5.7e+02;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 648 CAGCGCGCAGCGCGCGCGCGG 671
      ||||| ||||| ||||| ||||| |||||
Db 24 CGGCAGCGCGCAGCGCGCGCGG 1

RESULT 148
US-10-310-914A-79761/c
; Sequence 79761, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 79761
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-79761

Query Match          0.7%; Score 20.8; DB 1; Length 24;
Best Local Similarity 91.7%; Pred. No. 5.7e+02;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```



```
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 648 CAGCGCAGCAGCGCGCGCGGG 671
      |||||
Db 24 CGCGCGCGCAGCGCGCGCGGG 1

RESULT 149
US-10-310-914A-969288/c
; Sequence 969288, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 969288
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-969288

Query Match 0.7%; Score 20.8; DB 1; Length 24;
Best Local Similarity 91.7%; Pred. No. 5.7e+02;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGGG 674
      |||||
Db 24 CGGCAGCGCGCGCGCGGG 1

RESULT 150
US-10-310-914A-169345/c
; Sequence 169345, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 169345
; LENGTH: 25
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-169345

Query Match 0.7%; Score 20.8; DB 1; Length 25;
Best Local Similarity 91.7%; Pred. No. 6.3e+02;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGGG 674
      |||||
Db 24 CGGCAGCGCGCGCGCGGG 1

RESULT 151
US-10-310-914A-257826/c
; Sequence 257826, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
```

```
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 257826
; LENGTH: 25
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-257826

Query Match 0.7%; Score 20.8; DB 1; Length 25;
Best Local Similarity 91.7%; Pred. No. 6.3e+02;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGGG 674
      |||||
Db 24 CGGCAGCGCGCGCGCGGG 1

RESULT 152
US-10-310-914A-301497/c
; Sequence 301497, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 301497
; LENGTH: 25
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-301497

Query Match 0.7%; Score 20.8; DB 1; Length 25;
Best Local Similarity 91.7%; Pred. No. 6.3e+02;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 649 AGCGCAGCAGCGCGCGGG 672
      |||||
Db 24 AGCGCGCGCGCGCGGG 1

RESULT 153
US-10-310-914A-718936/c
; Sequence 718936, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 718936
; LENGTH: 25
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-718936

Query Match 0.7%; Score 20.8; DB 1; Length 25;
Best Local Similarity 91.7%; Pred. No. 6.3e+02;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

QY 655 ACACGGCGGGCGGGGGCTGT 678  
DB 24 ACACGGCGGGCGGGCGGGCGGT 1

## RESULT 154

US-10-310-914A-969275/c  
; Sequence 969275, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuizat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 969275  
; LENGTH: 25  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-969275

Query Match 0.7%; Score 20.8; DB 1; Length 25;  
Best Local Similarity 91.7%; Pred. No. 6.3e+02;  
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGCGCAGCGGGCGGGCGGGGG 674  
DB 24 CGCGCGGGCGGGCGGGCGGGG 1

## RESULT 155

US-11-121-849-247099  
; Sequence 247099, Application US/11121849  
; Publication No. US20050272080A1  
; GENERAL INFORMATION:  
; APPLICANT: John Palma  
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S  
; TITLE OF INVENTION: Microarrays  
; FILE REFERENCE: 3684.1  
; CURRENT APPLICATION NUMBER: US/11/121,849  
; CURRENT FILING DATE: 2005-05-03  
; PRIOR APPLICATION NUMBER: 60/567,949  
; PRIOR FILING DATE: 2004-05-03  
; NUMBER OF SEQ ID NOS: 673904  
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1  
; SEQ ID NO 247099  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-11-121-849-247099

Query Match 0.7%; Score 20.8; DB 1; Length 25;  
Best Local Similarity 91.7%; Pred. No. 6.3e+02;  
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2509 ATACTCTGTCTACTGTACATTGA 2532  
DB 2 ATACTCTGTCTCTGTACATAGA 25

## RESULT 156

US-11-136-527-128224  
; Sequence 128224, Application US/11136527  
; Publication No. US20050287570A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William M  
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes

; FILE REFERENCE: 031896-041000 (AM101086)  
; CURRENT APPLICATION NUMBER: US/11/136,527  
; CURRENT FILING DATE: 2005-05-25  
; PRIOR APPLICATION NUMBER: US 60/574,294  
; PRIOR FILING DATE: 2005-05-26  
; NUMBER OF SEQ ID NOS: 362830  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 128224  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: Probe  
US-11-136-527-128224

Query Match 0.7%; Score 20.8; DB 1; Length 25;  
Best Local Similarity 91.7%; Pred. No. 6.3e+02;  
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2356 ACGTGAGAAAGACAGACAGACAGA 2379  
DB 2 ATGTGAGAGACAGACAGACAGA 25

## RESULT 157

US-11-136-527-128250  
; Sequence 128250, Application US/11136527  
; Publication No. US20050287570A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William M  
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes  
; FILE REFERENCE: 031896-041000 (AM101086)  
; CURRENT APPLICATION NUMBER: US/11/136,527  
; CURRENT FILING DATE: 2005-05-25  
; PRIOR APPLICATION NUMBER: US 60/574,294  
; PRIOR FILING DATE: 2005-05-26  
; NUMBER OF SEQ ID NOS: 362830  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 128250  
; LENGTH: 25  
; TYPE: DNA  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: Probe  
US-11-136-527-128250

Query Match 0.7%; Score 20.8; DB 1; Length 25;  
Best Local Similarity 91.7%; Pred. No. 6.3e+02;  
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2356 ACGTGAGAAAGACAGACAGACAGA 2379  
DB 1 ATGTGAGAGACAGACAGACAGA 24

## RESULT 158

US-10-310-914A-107659/c  
; Sequence 107659, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuizat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 107659  
; LENGTH: 22  
; TYPE: RNA

```
; ORGANISM: Human
US-10-310-914A-107659

Query Match          0.7%; Score 20.4; DB 1; Length 22;
Best Local Similarity 95.5%; Pred. No. 5.1e+02;
Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 650 GCAGCAGCAGCGCGCGCGCGG 671
    ||||||||||||||||||
Db 22 GCAGCAGCAGCGCGCGCGCGG 1

RESULT 159
US-10-310-914A-163376/c
; Sequence 163376, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 163376
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-163376

Query Match          0.7%; Score 20.4; DB 1; Length 22;
Best Local Similarity 95.5%; Pred. No. 5.1e+02;
Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGCGGG 674
    ||||||||||||||||||
Db 22 GCAGCAGCGCGCGCGCGGG 1

RESULT 160
US-10-310-914A-548882/c
; Sequence 548882, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 548882
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-548882

Query Match          0.7%; Score 20.4; DB 1; Length 22;
Best Local Similarity 95.5%; Pred. No. 5.1e+02;
Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 273 CCTCTCTCTCTCCACCACTC 294
    ||||||||||||||||||
Db 22 CCCCTCTCTCTCCACCACTC 1

RESULT 161
US-10-310-914A-548887/c
; Sequence 548887, Application US/10310914A
```

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; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 548887
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-548887

Query Match          0.7%; Score 20.4; DB 1; Length 22;
Best Local Similarity 95.5%; Pred. No. 5.1e+02;
Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 274 CTCCTCTCTCTCCACCACTCC 295
    ||||||||||||||||||
Db 22 CCCCTCTCTCTCCACCACTCC 1

RESULT 162
US-10-310-914A-562895/c
; Sequence 562895, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 562895
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-562895

Query Match          0.7%; Score 20.4; DB 1; Length 22;
Best Local Similarity 95.5%; Pred. No. 5.1e+02;
Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 650 GCGCAGCAGCGCGCGCGCGG 671
    ||||||||||||||||||
Db 22 GCGCAGCAGCGCGCGCGCGG 1

RESULT 163
US-10-310-914A-168015
; Sequence 168015, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 168015
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
```

US-10-310-914A-168015

Query Match 0.7%; Score 20.4; DB 1; Length 23;  
Best Local Similarity 95.5%; Pred. No. 5.7e+02;  
Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGG 671  
||||| ||||||| ||||||| ||||||| |||||||  
Db 1 GCGGCAGCAGCGCGCGCGCGG 22

RESULT 164

US-10-310-914A-168016  
; Sequence 168016, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 168016

; LENGTH: 23

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-168016

Query Match 0.7%; Score 20.4; DB 1; Length 23;  
Best Local Similarity 95.5%; Pred. No. 5.7e+02;  
Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGG 671  
||||| ||||||| ||||||| ||||||| |||||||  
Db 1 GCGGCAGCAGCGCGCGCGCGG 22

RESULT 165

US-10-310-914A-193909  
; Sequence 193909, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 193909

; LENGTH: 23

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-193909

Query Match 0.7%; Score 20.4; DB 1; Length 23;  
Best Local Similarity 95.5%; Pred. No. 5.7e+02;  
Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 648 CAGCGCAGCAGCGCGCGCGG 669  
||||| ||||||| ||||||| ||||||| |||||||  
Db 1 CGCGGCAGCAGCGCGCGCGG 22

RESULT 166

US-10-310-914A-193947  
; Sequence 193947, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 193947

; LENGTH: 23

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-193947

Query Match 0.7%; Score 20.4; DB 1; Length 23;  
Best Local Similarity 95.5%; Pred. No. 5.7e+02;  
Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGG 671  
||||| ||||||| ||||||| ||||||| |||||||  
Db 1 GCGGCAGCAGCGCGCGCGG 22

RESULT 167

US-10-310-914A-193961  
; Sequence 193961, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 193961

; LENGTH: 23

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-193961

Query Match 0.7%; Score 20.4; DB 1; Length 23;  
Best Local Similarity 95.5%; Pred. No. 5.7e+02;  
Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 647 GCAGCGCAGCAGCGCGCGG 668  
||||| ||||||| ||||||| ||||||| |||||||  
Db 2 GCGGCAGCAGCAGCGCGCGG 23

RESULT 168

US-10-310-914A-839827  
; Sequence 839827, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 839827

; LENGTH: 23

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-839827

```
Query Match          0.7%; Score 20.4; DB 1; Length 23;
Best Local Similarity 95.5%; Pred. No. 5.7e+02;
Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 648 CAGCGCGCAGCAGCGCGCGGC 669
Db 1 CAGCAGCAGCAGCGCGCGCGGC 22

RESULT 169
US-10-310-914A-939660/c
; Sequence 939660, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 939660
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-939660

Query Match          0.7%; Score 20.4; DB 1; Length 23;
Best Local Similarity 95.5%; Pred. No. 5.7e+02;
Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGCGCGGG 674
Db 23 GCAGCAGCGCGCGCGCGCGGG 2

RESULT 170
US-10-310-914A-1162906
; Sequence 1162906, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1162906
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1162906

Query Match          0.7%; Score 20.4; DB 1; Length 24;
Best Local Similarity 95.5%; Pred. No. 6.4e+02;
Matches 21; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2365 AGACAGACAGACAGAACCCAG 2386
Db 2 AGACAGACAGACAGACCCAG 23

RESULT 171
US-10-310-914A-107656/c
; Sequence 107656, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 107656
; LENGTH: 25
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-107656
```

```
Query Match          0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 7.6e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
QY 644 GCAGCAGCGCGCAGCAGCGCGCGG 668
Db 25 GCAGCAGCGCGCGCGCGCGCTGGG 1
```

## RESULT 172

```
US-10-310-914A-186959/c
; Sequence 186959, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 186959
; LENGTH: 25
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-186959
```

```
Query Match          0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 7.6e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
QY 209 GGGGTGGGTGGGGGCGGCGCAGG 233
Db 25 GGGGTGGGTGGGGGCGGCTGCTGG 1
```

## RESULT 173

```
US-10-310-914A-279130
; Sequence 279130, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 279130
; LENGTH: 25
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-279130
```

```
Query Match          0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 7.6e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      648 CAGCGGCAGCAGCGCGCGCGCGG 672
      1 CGGCGGCAGCAGCAGCGCGCGGCGG 25
Db

RESULT 174
US-10-310-914A-288994/c
; Sequence 288994, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 288994
; LENGTH: 25
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-288994

Query Match          0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 7.6e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      650 GCGGCAGCAGCGCGCGCGCGG 674
      25 GCGGCAGCAGCGCGGTTGCGGGG 1
Db

RESULT 175
US-10-310-914A-504160
; Sequence 504160, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 504160
; LENGTH: 25
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-504160

Query Match          0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 76.0%; Pred. No. 7.6e+02;
Matches 19; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY      659 GCGGCGCGCGCGGCTGTGAGTT 683
      1 GCGGCGCGCGCGGCGGUGUCAGCU 25
Db

RESULT 176
US-10-310-914A-625765/c
; Sequence 625765, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 625765
; LENGTH: 25
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-625765

Query Match          0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 7.6e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      644 GCAGCAGCGCGCAGCAGCGCGG 668
      25 GCAGCAGCGCGCGCGCGCAGCGG 1
Db

RESULT 177
US-10-310-914A-906943
; Sequence 906943, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 906943
; LENGTH: 25
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-906943

Query Match          0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 7.6e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      645 CAGCAGCGCAGCAGCGCGCGG 669
      1 CAGCAGCAGCAGCAGCGCGGCGC 25
Db

RESULT 178
US-10-310-914A-947633/c
; Sequence 947633, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 947633
; LENGTH: 25
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-947633

Query Match          0.7%; Score 20.2; DB 1; Length 25;
```

```
Best Local Similarity 88.0%; Pred. No. 7.6e+02; Indels 0; Gaps 0;
Matches 22; Conservative 0; Mismatches 3;

QY 207 GGGGGGTGGGGTGGGGGGAGGCGAG 231
    ||| ||| ||| ||| ||| ||| ||| |||
Db 25 GAGGGGTGGGGTGGGGGGTGGCGAG 1

RESULT 179
US-10-858-341-809/c
; Sequence 809, Application US/10858341
; Publication No. US20050287667A1
; GENERAL INFORMATION:
; APPLICANT: Sheikhnejad, Reza
; APPLICANT: Sooch, Mina P.
; APPLICANT: Goodwin, Neal
; APPLICANT: Olson, David
; TITLE OF INVENTION: Methods and Compositions for the Inhibition of Gene Expression
; CURRENT APPLICATION NUMBER: US/10/858,341
; CURRENT FILING DATE: 2004-06-01
; NUMBER OF SEQ ID NOS: 1439
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 809
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (1)..(1)
; OTHER INFORMATION: methylated C nucleotide
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (4)..(4)
; OTHER INFORMATION: methylated C nucleotide
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (7)..(7)
; OTHER INFORMATION: methylated C nucleotide
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (16)..(16)
; OTHER INFORMATION: methylated C nucleotide
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (19)..(19)
; OTHER INFORMATION: methylated C nucleotide
US-10-858-341-809

Query Match 0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 7.6e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 646 ACAGCGGCGAGCGGCGGCGGCG 670
    ||| ||| ||| ||| ||| ||| ||| |||
Db 25 AGCGGCGGCGGCGAGTGGCGGCGGCG 1

RESULT 180
US-11-121-849-154865
; Sequence 154865, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; FILE OF INVENTION: Microarrays
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
```

```
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 154865
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-154865

Query Match 0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 7.6e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1874 AACGAAAGCATGTACACGCGCC 1898
    ||| ||| ||| ||| ||| ||| ||| |||
Db 1 AACGGAAGACGACGTGCCACGCGCC 25

RESULT 181
US-11-121-849-227098
; Sequence 227098, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; FILE OF INVENTION: Microarrays
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 227098
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-227098

Query Match 0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 7.6e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2394 GGAAAACTCTGGAACTTGGAGCAAGA 2418
    ||| ||| ||| ||| ||| ||| ||| |||
Db 1 GGGAAACTCTGGAACTTGGAGCAAGA 25

RESULT 182
US-11-121-849-317319/c
; Sequence 317319, Application US/11121849
; Publication No. US20050272080A1
; GENERAL INFORMATION:
; APPLICANT: John Palma
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; FILE OF INVENTION: Microarrays
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 317319
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-317319

Query Match 0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 7.6e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY-- 1033 CGAATGTGGGGCTCTTCGAGGACC 1057
```

```
Db      25  CGCATGTGGCCCTCTTCGAAGACC 1
|| ||||| ||||| ||||| ||||| |||||
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 193959
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-193959

Query Match      0.7%; Score 20; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5e+02;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      650  GCGGACGACGCGCGCGCGC 669
Db      2   GCGGACGACGCGCGCGCGC 21
||||| ||||| ||||| ||||| |||||

RESULT 186
US-10-310-914A-253777
; Sequence 253777, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 253777
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-253777

Query Match      0.7%; Score 20; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 5e+02;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      652  GCGACGACGCGCGCGCGCG 671
Db      1   GCGACGACGCGCGCGCGCG 20
||||| ||||| ||||| ||||| |||||

RESULT 187
US-10-310-914A-1036931/c
; Sequence 1036931, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1036931
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1036931

Query Match      0.7%; Score 19.8; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 6.9e+02;
```

---

```
Db      25  CGCATGTGGCCCTCTTCGAAGACC 1
|| ||||| ||||| ||||| ||||| |||||
; TITLE OF INVENTION: Methods of Genetic Analysis of Formalin Fixed Paraffin Embedded S
; TITLE OF INVENTION: Microarrays
; FILE REFERENCE: 3684.1
; CURRENT APPLICATION NUMBER: US/11/121,849
; CURRENT FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/567,949
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 673904
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 441903
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-11-121-849-441903

Query Match      0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 7.6e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      1844  TGGCTATGGCCACGACGAGCTTCC 1868
Db      25  TGGCTATGGCCACGACGAGCTTCC 1
||||| ||||| ||||| ||||| |||||

RESULT 184
US-11-136-527-274409/c
; Sequence 274409, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101866)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 274409
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-274409

Query Match      0.7%; Score 20.2; DB 1; Length 25;
Best Local Similarity 88.0%; Pred. No. 7.6e+02;
Matches 22; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      281  TCCTCCACCACTCTCTCTCTCTCT 305
Db      25  TCCTCCACCGCTCTCTCTCTCT 1
||||| ||||| ||||| ||||| |||||

RESULT 185
US-10-310-914A-193959
; Sequence 193959, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
```





```
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1232379
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1232379

Query Match      0.7%; Score 19.8; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 6.9e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      646 AGCAGCGGCGGCGGCGGCGG 668
Db      1 AGCAGCGGCGGCGGCGGCGG 23

RESULT 196
US-10-310-914A-139799/c
; Sequence 139799, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 139799
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-139799

Query Match      0.7%; Score 19.8; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 6.9e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      652 GGCAGCGGCGGCGGCGGCGG 674
Db      23 GGCAGCGGCGGCGGCGGCGG 1

RESULT 197
US-10-310-914A-163373/c
; Sequence 163373, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 163373
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-163373

Query Match      0.7%; Score 19.8; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 6.9e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      652 GGCAGCGGCGGCGGCGGCGG 674
Db      23 GGCAGCGGCGGCGGCGGCGG 1

RESULT 198
US-10-310-914A-1232379
; Sequence 1232379, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 117096
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-117096

Query Match      0.7%; Score 19.8; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 6.9e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      648 CAGCGGCGGCGGCGGCGGCGG 670
Db      1 CAGCGGCGGCGGCGGCGGCGG 23

RESULT 194
US-10-310-914A-117105
; Sequence 117105, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 117105
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-117105

Query Match      0.7%; Score 19.8; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 6.9e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      652 GGCAGCGGCGGCGGCGGCGG 674
Db      1 GGCAGCGGCGGCGGCGGCGG 23

RESULT 195
US-10-310-914A-1232379
; Sequence 1232379, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
```

QY 649 AGCGGAGCAGCGGCGGCGGCGG 671  
DB 23 AGCGGCGGCGGCGGCGGCGGCGG 1

RESULT 198  
US-10-310-914A-167850  
; Sequence 167850, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 167850  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-167850

Query Match 0.7%; Score 19.8; DB 1; Length 23;  
Best Local Similarity 91.3%; Pred. No. 6.9e+02;  
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 649 AGCGGAGCAGCGGCGGCGGCGG 671  
DB 1 AGCGGCGGCGGCGGCGGCGGCGG 23

RESULT 199  
US-10-310-914A-188845  
; Sequence 188845, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 188845  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-188845

Query Match 0.7%; Score 19.8; DB 1; Length 23;  
Best Local Similarity 73.9%; Pred. No. 6.9e+02;  
Matches 17; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 279 CCTCTCCACACCTCTCTCTCC 301  
DB 1 CCUCCUCCACACCGCCUCCUUC 23

RESULT 200  
US-10-310-914A-193908  
; Sequence 193908, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 193908  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-193908

Query Match 0.7%; Score 19.8; DB 1; Length 23;  
Best Local Similarity 91.3%; Pred. No. 6.9e+02;  
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGGCGGCGGCGG 673  
DB 1 CGGCAGCAGCGGCGGCGGCGGCGG 23

RESULT 201  
US-10-310-914A-223646/c  
; Sequence 223646, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 223646  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-223646

Query Match 0.7%; Score 19.8; DB 1; Length 23;  
Best Local Similarity 91.3%; Pred. No. 6.9e+02;  
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCAGCAGCGGCGGCGGCGGCGG 675  
DB 23 GCAGCAGCAGCGGCGGCGGCGG 1

RESULT 202  
US-10-310-914A-226055  
; Sequence 226055, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 226055  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-226055

Query Match 0.7%; Score 19.8; DB 1; Length 23;  
Best Local Similarity 91.3%; Pred. No. 6.9e+02;  
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCAGCAGCGGCGGCGGCGGCGG 675

Db	Seq ID	Seq	Score	DB 1	DB 2	DB 3	DB 4	DB 5	DB 6	DB 7	DB 8	DB 9	DB 10	DB 11	DB 12	DB 13	DB 14	DB 15	DB 16	DB 17	DB 18	DB 19	DB 20	DB 21	DB 22	DB 23	DB 24	DB 25	DB 26	DB 27	DB 28	DB 29	DB 30	DB 31	DB 32	DB 33	DB 34	DB 35	DB 36	DB 37	DB 38	DB 39	DB 40	DB 41	DB 42	DB 43	DB 44	DB 45	DB 46	DB 47	DB 48	DB 49	DB 50	DB 51	DB 52	DB 53	DB 54	DB 55	DB 56	DB 57	DB 58	DB 59	DB 60	DB 61	DB 62	DB 63	DB 64	DB 65	DB 66	DB 67	DB 68	DB 69	DB 70	DB 71	DB 72	DB 73	DB 74	DB 75	DB 76	DB 77	DB 78	DB 79	DB 80	DB 81	DB 82	DB 83	DB 84	DB 85	DB 86	DB 87	DB 88	DB 89	DB 90	DB 91	DB 92	DB 93	DB 94	DB 95	DB 96	DB 97	DB 98	DB 99	DB 100	DB 101	DB 102	DB 103	DB 104	DB 105	DB 106	DB 107	DB 108	DB 109	DB 110	DB 111	DB 112	DB 113	DB 114	DB 115	DB 116	DB 117	DB 118	DB 119	DB 120	DB 121	DB 122	DB 123	DB 124	DB 125	DB 126	DB 127	DB 128	DB 129	DB 130	DB 131	DB 132	DB 133	DB 134	DB 135	DB 136	DB 137	DB 138	DB 139	DB 140	DB 141	DB 142	DB 143	DB 144	DB 145	DB 146	DB 147	DB 148	DB 149	DB 150	DB 151	DB 152	DB 153	DB 154	DB 155	DB 156	DB 157	DB 158	DB 159	DB 160	DB 161	DB 162	DB 163	DB 164	DB 165	DB 166	DB 167	DB 168	DB 169	DB 170	DB 171	DB 172	DB 173	DB 174	DB 175	DB 176	DB 177	DB 178	DB 179	DB 180	DB 181	DB 182	DB 183	DB 184	DB 185	DB 186	DB 187	DB 188	DB 189	DB 190	DB 191	DB 192	DB 193	DB 194	DB 195	DB 196	DB 197	DB 198	DB 199	DB 200	DB 201	DB 202	DB 203	DB 204	DB 205	DB 206	DB 207	DB 208	DB 209	DB 210	DB 211	DB 212	DB 213	DB 214	DB 215	DB 216	DB 217	DB 218	DB 219	DB 220	DB 221	DB 222	DB 223	DB 224	DB 225	DB 226	DB 227	DB 228	DB 229	DB 230	DB 231	DB 232	DB 233	DB 234	DB 235	DB 236	DB 237	DB 238	DB 239	DB 240	DB 241	DB 242	DB 243	DB 244	DB 245	DB 246	DB 247	DB 248	DB 249	DB 250	DB 251	DB 252	DB 253	DB 254	DB 255	DB 256	DB 257	DB 258	DB 259	DB 260	DB 261	DB 262	DB 263	DB 264	DB 265	DB 266	DB 267	DB 268	DB 269	DB 270	DB 271	DB 272	DB 273	DB 274	DB 275	DB 276	DB 277	DB 278	DB 279	DB 280	DB 281	DB 282	DB 283	DB 284	DB 285	DB 286	DB 287	DB 288	DB 289	DB 290	DB 291	DB 292	DB 293	DB 294	DB 295	DB 296	DB 297	DB 298	DB 299	DB 300	DB 301	DB 302	DB 303	DB 304	DB 305	DB 306	DB 307	DB 308	DB 309	DB 310	DB 311	DB 312	DB 313	DB 314	DB 315	DB 316	DB 317	DB 318	DB 319	DB 320	DB 321	DB 322	DB 323	DB 324	DB 325	DB 326	DB 327	DB 328	DB 329	DB 330	DB 331	DB 332	DB 333	DB 334	DB 335	DB 336	DB 337	DB 338	DB 339	DB 340	DB 341	DB 342	DB 343	DB 344	DB 345	DB 346	DB 347	DB 348	DB 349	DB 350	DB 351	DB 352	DB 353	DB 354	DB 355	DB 356	DB 357	DB 358	DB 359	DB 360	DB 361	DB 362	DB 363	DB 364	DB 365	DB 366	DB 367	DB 368	DB 369	DB 370	DB 371	DB 372	DB 373	DB 374	DB 375	DB 376	DB 377	DB 378	DB 379	DB 380	DB 381	DB 382	DB 383	DB 384	DB 385	DB 386	DB 387	DB 388	DB 389	DB 390	DB 391	DB 392	DB 393	DB 394	DB 395	DB 396	DB 397	DB 398	DB 399	DB 400	DB 401	DB 402	DB 403	DB 404	DB 405	DB 406	DB 407	DB 408	DB 409	DB 410	DB 411	DB 412	DB 413	DB 414	DB 415	DB 416	DB 417
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Db 23 AGCGGCGGCGGCGGCGGCGG 1

RESULT 208
US-10-310-914A-261033
; Sequence 261033, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 261033
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-261033

Query Match 0.7%; Score 19.8; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 6.9e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 649 AGCGGCGGCGGCGGCGGCGG 671
||||| ||||| ||||| ||||| |||||
Db 1 AGCGGCGGCGGCGGCGGCGG 23

RESULT 209
US-10-310-914A-341345/c
; Sequence 341345, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 341345
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-341345

Query Match 0.7%; Score 19.8; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 6.9e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 649 AGCGGCGGCGGCGGCGGCGG 671
||||| ||||| ||||| ||||| |||||
Db 23 AGCGGCGGCGGCGGCGGCGG 1

RESULT 210
US-10-310-914A-381448/c
; Sequence 381448, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
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; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 381448
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-381448

Query Match 0.7%; Score 19.8; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 6.9e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 645 CAGCAGCGGCGGCGGCGGCGG 687
||||| ||||| ||||| ||||| |||||
Db 23 CAGCAGCGGCGGCGGCGGCGG 1

RESULT 211
US-10-310-914A-426641
; Sequence 426641, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 426641
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-426641

Query Match 0.7%; Score 19.8; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 6.9e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGGCGGCGGCGGCGG 674
||||| ||||| ||||| ||||| |||||
Db 1 GGCUGCAGCGGCGGCGGCGGCGG 23

RESULT 212
US-10-310-914A-436797/c
; Sequence 436797, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 436797
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-436797

Query Match 0.7%; Score 19.8; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 6.9e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCAGCAGCGGCGGCGGCGGCGG 675
||||| ||||| ||||| ||||| |||||
Db 23 GCAGCAGCGGCGGCGGCGGCGG 1
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RESULT 213
US-10-310-914A-463647
; Sequence 463647, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 463647
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-463647

Query Match          0.7%; Score 19.8; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 6.9e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 649 AGCGGCAGCAGCGCGCGCGG 671
||||| ||||| ||||| |||||
Db 1 AGCGCGCGCGCGCGCGCGG 23

RESULT 214
US-10-310-914A-463725
; Sequence 463725, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 463725
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-463725

Query Match          0.7%; Score 19.8; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 6.9e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 647 GCAGCGCAGCAGCGCGCGCGG 669
||||| ||||| ||||| |||||
Db 1 GCAGCGCGCGCGCGCGCGG 23

RESULT 215
US-10-310-914A-495448/c
; Sequence 495448, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
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; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 495448
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-495448

Query Match          0.7%; Score 19.8; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 6.9e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 288 CCACCTCTCTCTCTCTCTCT 310
||||| ||||| ||||| |||||
Db 23 CCACCTCTCTCTCTCTCTCT 1

RESULT 216
US-10-310-914A-51712/c
; Sequence 51712, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 51712
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-51712

Query Match          0.7%; Score 19.8; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 6.9e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 649 AGCGGCAGCAGCGCGCGCGG 671
||||| ||||| ||||| |||||
Db 23 AGCGCGCGCGCGCGCGCGG 1

RESULT 217
US-10-310-914A-545412
; Sequence 545412, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 545412
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-545412

Query Match          0.7%; Score 19.8; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 6.9e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 649 AGCGGCAGCAGCGCGCGCGG 671
||||| ||||| ||||| |||||
Db 1 AGCGCGCGCGCGCGCGCGG 23
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RESULT 218
US-10-310-914A-545435
; Sequence 545435, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 545435
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-545435

Query Match      0.7%; Score 19.8; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 6.9e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGCGCGCGG 674
Db 1 GGCAGCGCGCGCGCGCGCGCG 23

RESULT 219
US-10-310-914A-838145
; Sequence 838145, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 838145
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-838145

Query Match      0.7%; Score 19.8; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 6.9e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 649 AGCGGCAGCAGCGCGCGCGCGG 671
Db 1 AGCGGCGCGCGCGCGCGCGCG 23

RESULT 220
US-10-310-914A-87753/c
; Sequence 87753, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
```

```
; SEQ ID NO 87753
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-87753

Query Match      0.7%; Score 19.8; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 6.9e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 649 AGCGGCAGCAGCGCGCGCGCGG 671
Db 23 AGCGGCGCGCGCGCGCGCGCG 1

RESULT 221
US-10-310-914A-89784/c
; Sequence 89784, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 89784
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-89784

Query Match      0.7%; Score 19.8; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 6.9e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 649 AGCGGCAGCAGCGCGCGCGCGG 671
Db 23 AGCGGCGCGCGCGCGCGCGCG 1

RESULT 222
US-10-310-914A-899418/c
; Sequence 899418, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 899418
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-899418

Query Match      0.7%; Score 19.8; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 6.9e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 649 AGCGGCAGCAGCGCGCGCGCGG 671
Db 23 AGCGGCGCGCGCGCGCGCGCG 1
```

```
RESULT 223
US-10-310-914A-91419
; Sequence 91419, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 91419
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-91419

Query Match          0.7%; Score 19.8; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 6.9e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 646 AGCAGCGGCGAGCGCGCGCGCGG 668
Db 1 AGCAGCGGCGGCGCGCGCGCGCGG 23

RESULT 224
US-10-310-914A-91422
; Sequence 91422, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 91422
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-91422

Query Match          0.7%; Score 19.8; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 6.9e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 649 AGCGGCGGCGCGCGCGCGCGG 671
Db 1 AGCGGCGGCGGCGCGCGCGCGG 23

RESULT 225
US-10-310-914A-969286/c
; Sequence 969286, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 969286
```

```
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-969286

Query Match          0.7%; Score 19.8; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 6.9e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 649 AGCGGCGGCGCGCGCGCGCGG 671
Db 23 AGCGGCGGCGGCGCGCGCGCGG 1

RESULT 226
US-10-310-914A-969287/c
; Sequence 969287, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 969287
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-969287

Query Match          0.7%; Score 19.8; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 6.9e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GCGAGCGGCGGCGCGCGCGGG 674
Db 23 GCGAGCGGCGGCGCGCGCGGG 1

RESULT 227
US-10-310-914A-980396/c
; Sequence 980396, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 980396
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-980396

Query Match          0.7%; Score 19.8; DB 1; Length 23;
Best Local Similarity 91.3%; Pred. No. 6.9e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 649 AGCGGCGGCGGCGGCGGCGG 671
Db 23 AGCGGCGGCGGCGGCGGCGG 1

RESULT 228
```



```
US-10-310-914A-202523/c
; Sequence 202523, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 202523
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-202523

Query Match          0.7%; Score 19.8; DB 1; Length 24;
Best Local Similarity 91.3%; Pred. No. 7.7e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 646 AGCAGCGGCAGCAGCGCGCGCGG 668
DB 23 AGCAGCAGCAGCAGCGCGCGCGG 1

RESULT 229
US-10-310-914A-229030/c
; Sequence 229030, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 229030
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-229030

Query Match          0.7%; Score 19.8; DB 1; Length 24;
Best Local Similarity 91.3%; Pred. No. 7.7e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGCGCGCGGG 674
DB 23 GGCAGCAGCGCGCGCGCGCAGTGG 1

RESULT 230
US-10-310-914A-275581
; Sequence 275581, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 275581
; LENGTH: 24
```

```
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-275581

Query Match          0.7%; Score 19.8; DB 1; Length 24;
Best Local Similarity 82.6%; Pred. No. 7.7e+02;
Matches 19; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 207 GGGGGGTGGGGTGGGGGGGAGGC 229
DB 2 GGGAGGUGGGGUGGGAGGAGGC 24

RESULT 231
US-10-310-914A-301500/c
; Sequence 301500, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 301500
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-301500

Query Match          0.7%; Score 19.8; DB 1; Length 24;
Best Local Similarity 91.3%; Pred. No. 7.7e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 649 AGCGGCAGCAGCGCGCGCGCGG 671
DB 23 AGCGCGCGCGCGCGCGCGCGG 1

RESULT 232
US-10-310-914A-416391/c
; Sequence 416391, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 416391
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-416391

Query Match          0.7%; Score 19.8; DB 1; Length 24;
Best Local Similarity 91.3%; Pred. No. 7.7e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 643 GGCAGCAGCGCGCAGCAGCGCGG 665
DB 23 GGCAGCAGCGCGCGCAGCGCGG 1

RESULT 233
US-10-310-914A-432642/c
```

```
; Sequence 432642, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: Shiler, Kvuzat
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 432642
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-432642

Query Match          0.7%; Score 19.8; DB 1; Length 24;
Best Local Similarity 91.3%; Pred. No. 7.7e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 643 GGCAGCGCGCGGCGGCGGCGG 665
Db 23 GGCAGCGCGGCGGCGGCGGCGG 1

RESULT 234
US-10-310-914A-585076
; Sequence 585076, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 585076
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-585076

Query Match          0.7%; Score 19.8; DB 1; Length 24;
Best Local Similarity 65.2%; Pred. No. 7.7e+02;
Matches 15; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 278 TCCTCTCCACCACTCTCTCTC 300
Db 1 UCCUCCUCCACCUCCUCCUGUC 23

RESULT 235
US-10-310-914A-59489/c
; Sequence 59489, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 59489
; LENGTH: 24
; TYPE: RNA
```

```
; ORGANISM: Human
US-10-310-914A-59489

Query Match          0.7%; Score 19.8; DB 1; Length 24;
Best Local Similarity 91.3%; Pred. No. 7.7e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 264 CACCTCTCTGCTCTCTCTCTCTCC 286
Db 23 CACCTACTTCTCTCTCTCTCTCTCC 1

RESULT 236
US-10-310-914A-718993/c
; Sequence 718993, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 718993
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-718993

Query Match          0.7%; Score 19.8; DB 1; Length 24;
Best Local Similarity 91.3%; Pred. No. 7.7e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 657 CAGCGCGCGCGCGCGGCGGTGTG 679
Db 24 CAGCGCGCGCGCGCGGCGGCGGTG 2

RESULT 237
US-10-310-914A-726798/c
; Sequence 726798, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 726798
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-726798

Query Match          0.7%; Score 19.8; DB 1; Length 24;
Best Local Similarity 91.3%; Pred. No. 7.7e+02;
Matches 21; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCGAGCAGCGCGCGCGCGGG 672
Db 23 GCGGCGCGCGCGCGCGCGCGGG 1

RESULT 238
US-10-310-914A-906150
; Sequence 906150, Application US/10310914A
```

```
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 906150
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-906150

Query Match          0.7%; Score 19.8; DB 1; Length 24;
Best Local Similarity 65.2%; Pred. No. 7.7e+02;
Matches 15; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 274 CTCCTCTCTCTCCACCACCTCT 296
   |||||:|||||:|||||:|||||:
Db 2 CUCCUCCUCCUGCCUCCUCCU 24

RESULT 239
US-10-310-914A-117093
; Sequence 117093, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 117093
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-117093

Query Match          0.7%; Score 19.4; DB 1; Length 21;
Best Local Similarity 95.2%; Pred. No. 6e+02;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 649 AGCGGCAGCAGCGCGCGGC 669
   |||||:|||||:|||||:|||||
Db 1 AGCGGCAGCGCGCGCGGC 21

RESULT 240
US-10-310-914A-118054/c
; Sequence 118054, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 118054
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
```

```
US-10-310-914A-118054

Query Match          0.7%; Score 19.4; DB 1; Length 21;
Best Local Similarity 95.2%; Pred. No. 6e+02;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGTGGGGGGA 226
   |||||:|||||:|||||:|||||
Db 21 GGGAGGGTGGGTGGGGGGA 1

RESULT 241
US-10-310-914A-221992/c
; Sequence 221992, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 221992
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-221992

Query Match          0.7%; Score 19.4; DB 1; Length 21;
Best Local Similarity 95.2%; Pred. No. 6e+02;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 253 GGGGGCGCCACCTCTCTGC 273
   |||||:|||||:|||||:|||||
Db 21 GGGGGCGCCACCTCTCTGC 1

RESULT 242
US-10-310-914A-483982/c
; Sequence 483982, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 483982
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-483982

Query Match          0.7%; Score 19.4; DB 1; Length 21;
Best Local Similarity 95.2%; Pred. No. 6e+02;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGGG 673
   |||||:|||||:|||||:|||||
Db 21 GCAGCAGCGCGCGCGGG 1

RESULT 243
US-10-310-914A-585042
; Sequence 585042, Application US/10310914A
; Publication No. US20060003322A1
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```
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 585042
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-585042

Query Match          0.7%; Score 19.4; DB 1; Length 21;
Best Local Similarity 71.4%; Pred. No. 6e+02; 1; Indels 0; Gaps 0;
Matches 15; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 277 CTCCTCCTCCACCACTCCTC 297
      |||:|||||:|||||:|
Db 1 CUCCUCUCCACCUCCUCCUC 21

RESULT 244
US-10-310-914A-743435
; Sequence 743435, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 743435
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-743435

Query Match          0.7%; Score 19.4; DB 1; Length 21;
Best Local Similarity 71.4%; Pred. No. 6e+02; 1; Indels 0; Gaps 0;
Matches 15; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 274 CTCCTCCTCCTCCACCACTC 294
      |||:|||||:|||||:|
Db 1 CUCCUCUCCUCCACCUCCUC 21

RESULT 245
US-10-310-914A-79745/c
; Sequence 79745, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 79745
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-79745
```

```
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 79746
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-79746/c
; Sequence 79746, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 79746
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-79746

Query Match          0.7%; Score 19.4; DB 1; Length 21;
Best Local Similarity 95.2%; Pred. No. 6e+02; 1; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGCGGG 673
      |||:|||||:|||||:|
Db 21 GCGGCAGCGCGCGCGCGGG 1

RESULT 246
US-10-310-914A-79746/c
; Sequence 79746, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 79746
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-79746

Query Match          0.7%; Score 19.4; DB 1; Length 21;
Best Local Similarity 95.2%; Pred. No. 6e+02; 1; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGCGGG 673
      |||:|||||:|||||:|
Db 21 GCGGCAGCGCGCGCGCGGG 1

RESULT 247
US-10-310-914A-79759/c
; Sequence 79759, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 79759
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-79759

Query Match          0.7%; Score 19.4; DB 1; Length 21;
Best Local Similarity 95.2%; Pred. No. 6e+02; 1; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGGG 671
      |||:|||||:|||||:|
Db 21 CGGCAGCAGCGCGCGCGGG 1

RESULT 248
US-10-310-914A-1162905
; Sequence 1162905, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1162905
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1162905

Query Match      0.7%; Score 19.4; DB 1; Length 22;
Best Local Similarity 95.2%; Pred. No. 6.9e+02;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2365 AGACAGACAGACAGAAAGCCA 2385
    |||||
Db 2 AGACAGACAGACAGACAGCCA 22

RESULT 249
US-10-310-914A-1170921
; Sequence 1170921, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1170921
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1170921

Query Match      0.7%; Score 19.4; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 6.9e+02;
Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGGGGCT 676
    |||||
Db 1 GCAGCGCGCGCGCGCGGCU 21

RESULT 250
US-10-310-914A-117099
; Sequence 117099, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 117099
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-117099
```

```
Query Match      0.7%; Score 19.4; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 6.9e+02;
Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGGGGCT 676
    |||||
Db 1 GCAGCGCGCGCGCGGCU 21

RESULT 251
US-10-310-914A-120332/c
; Sequence 120332, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 120332
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-120332

Query Match      0.7%; Score 19.4; DB 1; Length 22;
Best Local Similarity 95.2%; Pred. No. 6.9e+02;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCAGCAGCGCG 664
    |||||
Db 21 GCAGTAGCGCGCAGCAGCGCG 1

RESULT 252
US-10-310-914A-168006
; Sequence 168006, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 168006
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-168006

Query Match      0.7%; Score 19.4; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 6.9e+02;
Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGGGGCT 676
    |||||
Db 1 GCAGCGCGCGCGCGGCU 21

RESULT 253
US-10-310-914A-397666/c
; Sequence 397666, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
```

```
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 397666
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-397666

Query Match          0.7%; Score 19.4; DB 1; Length 22;
Best Local Similarity 95.2%; Pred. No. 6.9e+02;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 643 GGCAGCAGCGCGCGCGCGCGC 663
Db 21 GGCAGCGCGCGCGCGCGCGC 1

RESULT 254
US-10-310-914A-545425
; Sequence 545425, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 545425
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-545425

Query Match          0.7%; Score 19.4; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 6.9e+02;
Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGCGGGCT 676
Db 1 GCAGCGCGCGCGCGCGCGCU 21

RESULT 255
US-10-310-914A-548858/c
; Sequence 548858, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 548858
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-548858

Query Match          0.7%; Score 19.4; DB 1; Length 22;
```

```
Best Local Similarity 95.2%; Pred. No. 6.9e+02;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 273 CTTCTCTCTCTCTCCACCACT 293
Db 21 CCCCCTCTCTCTCCACCACT 1

RESULT 256
US-10-310-914A-79762/c
; Sequence 79762, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 79762
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-79762

Query Match          0.7%; Score 19.4; DB 1; Length 22;
Best Local Similarity 95.2%; Pred. No. 6.9e+02;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 651 CGCAGCAGCGCGCGCGCGCG 671
Db 21 CGCGCGCAGCGCGCGCGCGG 1

RESULT 257
US-10-310-914A-838199
; Sequence 838199, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 838199
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-838199

Query Match          0.7%; Score 19.4; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 6.9e+02;
Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGGGGCT 676
Db 1 GCAGCGCGCGCGCGCGCGCU 21

RESULT 258
US-10-310-914A-1016846/c
; Sequence 1016846, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
```

```
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1016846
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1016846

Query Match          0.7%; Score 19.4; DB 1; Length 23;
Best Local Similarity 95.2%; Pred. No. 7.7e+02;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 647 GCAGCGGCGGCGGCGGCGG 667
Db 22 GCAGCGGCGGCGGCGGCGG 2

RESULT 259
US-10-310-914A-339978
; Sequence 339978, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 339978
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-339978

Query Match          0.7%; Score 19.4; DB 1; Length 23;
Best Local Similarity 95.2%; Pred. No. 7.7e+02;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGGCGGCGGCGG 671
Db 1 CGGCAGCAGCGGCGGCGGCGG 21

RESULT 260
US-10-310-914A-562923/c
; Sequence 562923, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 562923
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-562923

Query Match          0.7%; Score 19.4; DB 1; Length 23;
Best Local Similarity 95.2%; Pred. No. 7.7e+02;
```

```
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGGCGGCGGCGG 671
Db 22 CGGCAGCGGCGGCGGCGGCGG 2

RESULT 261
US-10-310-914A-964808
; Sequence 964808, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 964808
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-964808

Query Match          0.7%; Score 19.4; DB 1; Length 23;
Best Local Similarity 95.2%; Pred. No. 7.7e+02;
Matches 20; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGGCGGCGGCGG 671
Db 1 CGGCAGCAGCGGCGGCGGCGG 21

RESULT 262
US-10-310-914A-100325
; Sequence 100325, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 100325
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-100325

Query Match          0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 647 GCAGCGGCGGCGGCGGCGGCGG 670
Db 1 GCAGCGGCGGCGGCGGCGGCGG 24

RESULT 263
US-10-310-914A-1090775/c
; Sequence 1090775, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
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```
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1090775
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1090775
```

```
Query Match 0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
QY 648 CAGCGGCAGCGCGCGCGCGG 671
Db 24 CGCGCGCGCGCGCGCGCGCGG 1
```

```
RESULT 264
US-10-310-914A-117102
; Sequence 117102, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 117102
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-117102
```

```
Query Match 0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
QY 650 GCAGCGCAGCGCGCGCGCGG 673
Db 1 GCAGCGCGCGCGCGCGCGGUG 24
```

```
RESULT 265
US-10-310-914A-1174818/c
; Sequence 1174818, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1174818
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1174818
```

```
Query Match 0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
QY 657 CAGCGCGCGCGCGCGGCTGTGA 680
Db 24 CGCGCGCGCGCGCGCGCGTGGGA 1
```

```
RESULT 266
US-10-310-914A-1310944/c
; Sequence 1310944, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1310944
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1310944
```

```
Query Match 0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
QY 648 CAGCGGCAGCGCGCGCGCGG 671
Db 24 CGCGCGCGCGCGCGCGCGCGG 1
```

```
RESULT 267
US-10-310-914A-1310945/c
; Sequence 1310945, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1310945
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1310945
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Query Match 0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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QY 648 CAGCGGCAGCGCGCGCGCGG 671
Db 24 CGCGCGCGCGCGCGCGCGCGG 1
```

```
RESULT 268
US-10-310-914A-1310946/c
; Sequence 1310946, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
```



; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1310946  
; LENGTH: 24  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1310946

Query Match 0.7%; Score 19.2; DB 1; Length 24;  
Best Local Similarity 87.5%; Pred. No. 9.2e+02;  
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGCGCGCGCGG 671  
DB 24 CGCGCGCGCGCGCGCGCGCGG 1

RESULT 269  
US-10-310-914A-1310947/c  
; Sequence 1310947, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1310947  
; LENGTH: 24  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1310947

Query Match 0.7%; Score 19.2; DB 1; Length 24;  
Best Local Similarity 87.5%; Pred. No. 9.2e+02;  
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGCGCGCGCGG 671  
DB 24 CGCGCGCGCGCGCGCGCGCGG 1

RESULT 270  
US-10-310-914A-1310948/c  
; Sequence 1310948, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1310948  
; LENGTH: 24  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1310948

Query Match 0.7%; Score 19.2; DB 1; Length 24;  
Best Local Similarity 87.5%; Pred. No. 9.2e+02;  
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGCGCGCGCGG 671  
DB 24 CGCGCGCGCGCGCGCGCGCGG 1

QY 648 CAGCGGCAGCAGCGCGCGCGCGG 671  
DB 24 CGCGCGCGCGCGCGCGCGCGG 1

RESULT 271  
US-10-310-914A-1310949/c  
; Sequence 1310949, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1310949  
; LENGTH: 24  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1310949

Query Match 0.7%; Score 19.2; DB 1; Length 24;  
Best Local Similarity 87.5%; Pred. No. 9.2e+02;  
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGCGCGCGCGG 671  
DB 24 CGCGCGCGCGCGCGCGCGCGG 1

RESULT 272  
US-10-310-914A-1340165/c  
; Sequence 1340165, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1340165  
; LENGTH: 24  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1340165

Query Match 0.7%; Score 19.2; DB 1; Length 24;  
Best Local Similarity 87.5%; Pred. No. 9.2e+02;  
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2555 TATCTATATTCATACATATATAT 2578  
DB 24 TATATATATACATAAATATATAT 1

RESULT 273  
US-10-310-914A-138528/c  
; Sequence 138528, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 138528  
; LENGTH: 24  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-138528

Query Match 0.7%; Score 19.2; DB 1; Length 24;  
Best Local Similarity 87.5%; Pred. No. 9.2e+02;  
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 645 CAGCAGCGGCGAGCGGGCGGG 668  
DB 24 CAGCGGCGGGCAGCGGCGAGCGG 1

RESULT 274  
US-10-310-914A-148798/c  
; Sequence 148798, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 148798  
; LENGTH: 24  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-148798

Query Match 0.7%; Score 19.2; DB 1; Length 24;  
Best Local Similarity 87.5%; Pred. No. 9.2e+02;  
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 651 CGGCAGCGGCGGGCGGGCGGG 674  
DB 24 CGGCAGCGGCGGTGGCAGTGG 1

RESULT 275  
US-10-310-914A-163371/c  
; Sequence 163371, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 163371  
; LENGTH: 24  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-163371

Query Match 0.7%; Score 19.2; DB 1; Length 24;  
Best Local Similarity 87.5%; Pred. No. 9.2e+02;  
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCGAGCGGGCGGGCGGG 671

Db 24 CGCGCGGCGGCGGCGGGCGGG 1

RESULT 276  
US-10-310-914A-163372/c  
; Sequence 163372, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 163372  
; LENGTH: 24  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-163372

Query Match 0.7%; Score 19.2; DB 1; Length 24;  
Best Local Similarity 87.5%; Pred. No. 9.2e+02;  
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCGAGCGGCGGGCGGG 671  
DB 24 CGCGCGGCGGCGGCGGGCGGG 1

RESULT 277  
US-10-310-914A-163380/c  
; Sequence 163380, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 163380  
; LENGTH: 24  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-163380

Query Match 0.7%; Score 19.2; DB 1; Length 24;  
Best Local Similarity 87.5%; Pred. No. 9.2e+02;  
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 651 CGGCAGCGGCGGGCGGGCGGG 674  
DB 24 CGGCGGCGGCGGCGGGCGGG 1

RESULT 278  
US-10-310-914A-167361  
; Sequence 167361, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A



; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 167694  
; LENGTH: 24  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-167694

Query Match 0.7%; Score 19.2; DB 1; Length 24;  
Best Local Similarity 87.5%; Pred. No. 9.2e+02;  
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGCGCGCGCG 671  
Db 24 CGCGCGCGCGCGCGCGCGCGCG 1

## RESULT 284

US-10-310-914A-167695/c  
; Sequence 167695, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 167695  
; LENGTH: 24  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-167695

Query Match 0.7%; Score 19.2; DB 1; Length 24;  
Best Local Similarity 87.5%; Pred. No. 9.2e+02;  
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGCGCGCGCG 671  
Db 24 CGCGCGCGCGCGCGCGCGCGCG 1

## RESULT 285

US-10-310-914A-167696/c  
; Sequence 167696, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 167696  
; LENGTH: 24  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-167696

Query Match 0.7%; Score 19.2; DB 1; Length 24;  
Best Local Similarity 87.5%; Pred. No. 9.2e+02;  
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGCGCGCGCG 671  
Db 24 CGCGCGCGCGCGCGCGCGCGCG 1

## RESULT 286

US-10-310-914A-168035  
; Sequence 168035, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 168035  
; LENGTH: 24  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-168035

Query Match 0.7%; Score 19.2; DB 1; Length 24;  
Best Local Similarity 87.5%; Pred. No. 9.2e+02;  
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 647 GCAGCGGCAGCAGCGCGCGCGCG 670  
Db 1 GCGCGCGCGCGCGCGCGCGCGCG 24

## RESULT 287

US-10-310-914A-168036  
; Sequence 168036, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 168036  
; LENGTH: 24  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-168036

Query Match 0.7%; Score 19.2; DB 1; Length 24;  
Best Local Similarity 87.5%; Pred. No. 9.2e+02;  
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 647 GCAGCGGCAGCAGCGCGCGCGCG 670  
Db 1 GCGCGCGCGCGCGCGCGCGCGCG 24

## RESULT 288

US-10-310-914A-171811  
; Sequence 171811, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 171811

; LENGTH: 24

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-171811

Query Match 0.7%; Score 19.2; DB 1; Length 24;

Best Local Similarity 87.5%; Pred. No. 9.2e+02;

Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 2365 AGACAGACAGACAGAAAGCCACAG 2388

Db 1 AGACAGACAGACAGACAGACAG 24

RESULT 289

US-10-310-914A-171812

; Sequence 171812, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 171812

; LENGTH: 24

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-171812

Query Match 0.7%; Score 19.2; DB 1; Length 24;

Best Local Similarity 87.5%; Pred. No. 9.2e+02;

Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 2365 AGACAGACAGACAGAAAGCCACAG 2388

Db 1 AGACAGACAGACAGACAGACAG 24

RESULT 290

US-10-310-914A-171813

; Sequence 171813, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 171813

; LENGTH: 24

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-171813

Query Match 0.7%; Score 19.2; DB 1; Length 24;

Best Local Similarity 87.5%; Pred. No. 9.2e+02;

Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 2365 AGACAGACAGACAGAAAGCCACAG 2388

Db 1 AGACAGACAGACAGACAGACAG 24

RESULT 291

US-10-310-914A-172751/c

; Sequence 172751, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 172751

; LENGTH: 24

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-172751

Query Match 0.7%; Score 19.2; DB 1; Length 24;

Best Local Similarity 87.5%; Pred. No. 9.2e+02;

Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 201 GCGCGCGGGGTGGGTGGGGGG 224

Db 24 GCGCGCGGGGTGGGTGGGGGGGG 1

RESULT 292

US-10-310-914A-189745/c

; Sequence 189745, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 189745

; LENGTH: 24

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-189745

Query Match 0.7%; Score 19.2; DB 1; Length 24;

Best Local Similarity 87.5%; Pred. No. 9.2e+02;

Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 648 CAGCGCGCAGCGCGCGCGCGG 671

Db 24 CCGCGCGCGCGCGCGCGCGG 1

RESULT 293

US-10-310-914A-189746/c

; Sequence 189746, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3



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; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-226056

Query Match          0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGCGGGCTGTG 679
   ||| ||||| ||||| ||||| |||||
Db 1 GCGCGCGCGCGCGCGGGCGGCG 24

RESULT 299
US-10-310-914A-229035/c
; Sequence 229035, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 229035
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-229035

Query Match          0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 645 CAGCAGCGCGCAGCAGCGGGCGG 668
   ||| ||||| ||||| ||||| |||||
Db 24 CGGCGGAGGCAGCAGCGGGCGG 1

RESULT 300
US-10-310-914A-229036/c
; Sequence 229036, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 229036
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-229036

Query Match          0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 633 CGGCGGTGCAGCAGCAGCGGCG 656
   ||||| ||||| ||||| ||||| |||||
Db 24 CGGCGGCGGAGCAGCAGCGGGCG 1

RESULT 301
```

```
US-10-310-914A-255936/c
; Sequence 255936, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 255936
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-255936

Query Match          0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCAGCGGGCGG 671
   ||||| ||||| ||||| ||||| |||||
Db 24 CGGCGGCGCGCGCGGGCGGCG 1

RESULT 302
US-10-310-914A-255937/c
; Sequence 255937, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 255937
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-255937

Query Match          0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCAGCGGGCGG 671
   ||||| ||||| ||||| ||||| |||||
Db 24 CGGCGGCGCGCGCGGGCGGCG 1

RESULT 303
US-10-310-914A-261073
; Sequence 261073, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 261073
; LENGTH: 24
```

```
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-261073

Query Match      0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 647 GCAGCGCAGCAGCGCGCGCGCGG 670
    ||||| ||||| ||||| |||||
Db 1 GCGCGCGCGCGCGCGCGCGCGCGG 24

RESULT 304
US-10-310-914A-275927/c
; Sequence 275927, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 275927
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-275927

Query Match      0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGCGCGG 674
    ||||| ||||| ||||| |||||
Db 24 CCGCAGCGCGCGCGCGCGCGG 1

RESULT 307
US-10-310-914A-317199/c
; Sequence 317199, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 317199
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-317199

Query Match      0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGCAGCAGCGCGCGCGCGG 671
    ||||| ||||| ||||| |||||
Db 24 CCGCGCGCGCGCGCGCGCGCGG 1

RESULT 308
US-10-310-914A-317200/c
; Sequence 317200, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 317200
; LENGTH: 24
; TYPE: RNA
US-10-310-914A-280846/c
; Sequence 280846, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 280846
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-280846

Query Match      0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGCAGCAGCGCGCGCGCGG 671
    ||||| ||||| ||||| |||||
Db 24 CCGCGCGCGCGCGCGCGCGCGG 1

RESULT 306
US-10-310-914A-288993/c
; Sequence 288993, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 288993
; LENGTH: 24
; TYPE: RNA
US-10-310-914A-288993
```



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; ORGANISM: Human
US-10-310-914A-317200

Query Match
Best Local Similarity 0.7%; Score 19.2; DB 1; Length 24;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGCGCGCGCGG 671
Db 24 CGCGCGCGCGCGCGCGCGCGCGG 1

RESULT 309
US-10-310-914A-317201/c
; Sequence 317201, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 317201
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-317201

Query Match
Best Local Similarity 0.7%; Score 19.2; DB 1; Length 24;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGCGCGCGCGG 671
Db 24 CGCGCGCGCGCGCGCGCGCGCGG 1

RESULT 310
US-10-310-914A-326502/c
; Sequence 326502, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 326502
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-326502

Query Match
Best Local Similarity 0.7%; Score 19.2; DB 1; Length 24;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGCGCGCGCGG 671
Db 24 CAGCGCGCGCGCGCGCGCGCGG 1

RESULT 311
US-10-310-914A-339008/c
; Sequence 339008, Application US/10310914A
```

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; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 339008
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-339008

Query Match
Best Local Similarity 0.7%; Score 19.2; DB 1; Length 24;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2674 TTCCTTCATGGATTGTTCTTCTG 2697
Db 24 TTCCTTCGTTGATTGTTTTTCTG 1

RESULT 312
US-10-310-914A-339018/c
; Sequence 339018, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 339018
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-339018

Query Match
Best Local Similarity 0.7%; Score 19.2; DB 1; Length 24;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGCGCGCGCGG 671
Db 24 CGCGCGCGCGCGCGCGCGCGCGG 1

RESULT 313
US-10-310-914A-341341/c
; Sequence 341341, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 341341
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
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US-10-310-914A-341341

Query Match 0.7%; Score 19.2; DB 1; Length 24;  
Best Local Similarity 87.5%; Pred. No. 9.2e+02;  
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGCGCGCGCGG 671  
| | | | | | | | | | | | | | | | | | | | | |  
Db 24 CGCGCGCGCGCGCGCGCGCGCGG 1

RESULT 314

US-10-310-914A-341342/C  
; Sequence 341342, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 341342

; LENGTH: 24

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-341342

Query Match

Best Local Similarity 0.7%; Score 19.2; DB 1; Length 24;  
Best Local Similarity 87.5%; Pred. No. 9.2e+02;  
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGCGCGCGCGG 671  
| | | | | | | | | | | | | | | | | | | | | |  
Db 24 CGCGCGCGCGCGCGCGCGCGCGG 1

RESULT 315

US-10-310-914A-341343/C

; Sequence 341343, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 341343

; LENGTH: 24

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-341343

Query Match

Best Local Similarity 0.7%; Score 19.2; DB 1; Length 24;  
Best Local Similarity 87.5%; Pred. No. 9.2e+02;  
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGCGCGCGCGG 671  
| | | | | | | | | | | | | | | | | | | | | |  
Db 24 CGCGCGCGCGCGCGCGCGCGCGG 1

RESULT 316

US-10-310-914A-341344/C

; Sequence 341344, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 341344

; LENGTH: 24

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-341344

Query Match

Best Local Similarity 0.7%; Score 19.2; DB 1; Length 24;  
Best Local Similarity 87.5%; Pred. No. 9.2e+02;  
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGCGCGCGCGG 671  
| | | | | | | | | | | | | | | | | | | | | |  
Db 24 CGCGCGCGCGCGCGCGCGCGCGG 1

RESULT 317

US-10-310-914A-374338/C

; Sequence 374338, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 374338

; LENGTH: 24

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-374338

Query Match

Best Local Similarity 0.7%; Score 19.2; DB 1; Length 24;  
Best Local Similarity 87.5%; Pred. No. 9.2e+02;  
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 263 CCACCTCTCTCTCTCTCTCTCTCTCC 286  
| | | | | | | | | | | | | | | | | | | | | |  
Db 24 CTTCTCTCTCTCTCTCTCTCTCTCTCC 1

RESULT 318

US-10-310-914A-380380/C

; Sequence 380380, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 380380

; LENGTH: 24

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-380380

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Query Match      0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 645 CAGCAGCGCGCAGCAGCGCGCGCGG 668
Db 24 CAGCAGCGCGCGCAGCAGCGCGCGG 1

RESULT 319
US-10-310-914A-385461/c
; Sequence 385461, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 385461
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-385461

Query Match      0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGCGCAGCAGCGCGCGCGCGG 671
Db 24 CAGCGCGCGCAGCAGCGCGCGCGG 1

RESULT 320
US-10-310-914A-404929
; Sequence 404929, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 404929
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-404929

Query Match      0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 642 AGCGAGCGCGCGCAGCAGCGCGCGG 665
Db 1 AGCGCGCGCGCGCGCGCGCGCGG 24

RESULT 321
US-10-310-914A-406855
; Sequence 406855, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 406855
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-406855

Query Match      0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGCGCAGCAGCGCGCGCGCGG 671
Db 24 CAGCGCGCGCGCGCGCGCGCGCGG 1

RESULT 323
US-10-310-914A-412090/c
; Sequence 412090, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 412090
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-412090
```

```
Query Match          0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGCGCGCGCGG 671
      ||||| ||||| ||||| ||||| |||||
Db 24 CGCGCGCGCGCGCGCGCGCGCGG 1

RESULT 324
US-10-310-914A-412091/c
; Sequence 412091, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 412091
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-412091

Query Match          0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGCGCGCGCGG 671
      ||||| ||||| ||||| ||||| |||||
Db 24 CGCGCGCGCGCGCGCGCGCGCGG 1

RESULT 325
US-10-310-914A-412092/c
; Sequence 412092, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 412092
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-412092

Query Match          0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGCGCGCGCGG 671
      ||||| ||||| ||||| ||||| |||||
Db 24 CGCGCGCGCGCGCGCGCGCGCGG 1

RESULT 326
US-10-310-914A-416396/c
; Sequence 416396, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
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```
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 416396
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-416396

Query Match          0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGCGCGCGCGG 671
      ||||| ||||| ||||| ||||| |||||
Db 24 CAGCGCGCGCAACGCGCGCAGCGG 1

RESULT 327
US-10-310-914A-42417
; Sequence 42417, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42417
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-42417

Query Match          0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 647 GCAGCGGCAGCAGCGCGCGCGCGG 670
      ||||| ||||| ||||| ||||| |||||
Db 1 GCGCGCGCGCGCGCGCGCGCGG 24

RESULT 328
US-10-310-914A-42418
; Sequence 42418, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42418
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-42418

Query Match          0.7%; Score 19.2; DB 1; Length 24;
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:	TITLE OF INVENTION:	Bioinformatically detectable group of novel regulatory genes and	:		
:	TITLE OF INVENTION:	uses thereof	:		
:	FILE REFERENCE:	06087.0200.CPUS01	:		
:	CURRENT APPLICATION NUMBER:	US/10/310,914A	:		
:	CURRENT FILING DATE:	2002-12-06	:		
:	NUMBER OF SEQ ID NOS:	1388402	:		
:	SOFTWARE:	Patentin version 3.3	:		
:	SEQ ID NO 432638		:		
:	LENGTH:	24	:		
:	TYPE:	RNA	:		
:	ORGANISM:	Human	:		
:	US-10-310-914A-432638		:		
:	Query Match	0.7%; Score 19.2; DB 1; Length 24;	:		
:	Best Local Similarity	87.5%; Pred. No. 9.2e+02;	:		
:	Matches	21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;	:		
Qy	645	CAGCAGCGGCAGCAGCGGCGCGCG 668			
Db	24	CGCGCGCGCGCGCAGCGCGCGCG 1			
RESULT 332					
:	US-10-310-914A-432645/c		:		
:	Sequence 432645, Application US/10310914A		:		
:	Publication No. US20060003322A1		:		
:	GENERAL INFORMATION:		:		
:	APPLICANT:	Bentwich, Isaac	:		
:	SHILER, Kvuizat		:		
:	TITLE OF INVENTION:	Bioinformatically detectable group of novel regulatory genes and	:		
:	TITLE OF INVENTION:	uses thereof	:		
:	FILE REFERENCE:	06087.0200.CPUS01	:		
:	CURRENT APPLICATION NUMBER:	US/10/310,914A	:		
:	CURRENT FILING DATE:	2002-12-06	:		
:	NUMBER OF SEQ ID NOS:	1388402	:		
:	SOFTWARE:	Patentin version 3.3	:		
:	SEQ ID NO 432645		:		
:	LENGTH:	24	:		
:	TYPE:	RNA	:		
:	ORGANISM:	Human	:		
:	US-10-310-914A-432645		:		
:	Query Match	0.7%; Score 19.2; DB 1; Length 24;	:		
:	Best Local Similarity	87.5%; Pred. No. 9.2e+02;	:		
:	Matches	21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;	:		
Qy	648	CAGCAGCGGCAGCAGCGGCGCGCG 671			
Db	24	CGCGCGCGCGCGCAGCGCGCGCG 1			
RESULT 333					
:	US-10-310-914A-463736		:		
:	Sequence 463736, Application US/10310914A		:		
:	Publication No. US20060003322A1		:		
:	GENERAL INFORMATION:		:		
:	APPLICANT:	Bentwich, Isaac	:		
:	SHILER, Kvuizat		:		
:	TITLE OF INVENTION:	Bioinformatically detectable group of novel regulatory genes and	:		
:	TITLE OF INVENTION:	uses thereof	:		
:	FILE REFERENCE:	06087.0200.CPUS01	:		
:	CURRENT APPLICATION NUMBER:	US/10/310,914A	:		
:	CURRENT FILING DATE:	2002-12-06	:		
:	NUMBER OF SEQ ID NOS:	1388402	:		
:	SOFTWARE:	Patentin version 3.3	:		
:	SEQ ID NO 463736		:		
:	LENGTH:	24	:		
:	TYPE:	RNA	:		
:	ORGANISM:	Human	:		
:	US-10-310-914A-463736		:		
:	Query Match	0.7%; Score 19.2; DB 1; Length 24;	:		
:	Best Local Similarity	87.5%; Pred. No. 9.2e+02;	:		
:	Matches	21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;	:		



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QY 201 GCGCGCGCGCGGTGGGTGGCGGG 224
Db 24 GTCCCGAGCGCGTGGGTGGCGGG 1

RESULT 339
US-10-310-914A-570431/c
; Sequence 570431, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzaat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 570431
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-570431

Query Match 0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGCGCAGCAGCGCGCGCGGG 671
Db 24 CGCGCGCGTAGCGCGCGCGCGGG 1

RESULT 340
US-10-310-914A-629655/c
; Sequence 629655, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzaat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 629655
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-629655

Query Match 0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGCGCAGCAGCGCGCGCGGG 671
Db 24 CGCGCGCGTAGCGCGCGCGCGGG 1

RESULT 341
US-10-310-914A-641630/c
; Sequence 641630, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzaat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
```

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; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 641630
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-641630

Query Match 0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGCGCAGCAGCGCGCGCGGG 671
Db 24 CGCGCGCGCGCGCGCGCGCGGG 1

RESULT 342
US-10-310-914A-68935/c
; Sequence 68935, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzaat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 68935
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-68935

Query Match 0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGCGCAGCAGCGCGCGCGGG 671
Db 24 CGCGCGCGACACAGCGCGCGCGGG 1

RESULT 343
US-10-310-914A-69718/c
; Sequence 69718, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzaat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 69718
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-69718

Query Match 0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

QY 645 CAGCAGCGGCAGCAGCGCGCGG 668  
Db 24 CGCGCGGCAGCAGCGCGCGCGG 1

## RESULT 344

US-10-310-914A-69721/c  
; Sequence 69721, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 69721  
; LENGTH: 24  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-69721

Query Match 0.7%; Score 19.2; DB 1; Length 24;  
Best Local Similarity 87.5%; Pred. No. 9.2e+02;  
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGCGCGCGG 671  
Db 24 CAGCGGCAGCAGCGCGCGCGG 1

## RESULT 345

US-10-310-914A-715434/c  
; Sequence 715434, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 715434  
; LENGTH: 24  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-715434

Query Match 0.7%; Score 19.2; DB 1; Length 24;  
Best Local Similarity 87.5%; Pred. No. 9.2e+02;  
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGCGCGCGG 671  
Db 24 CGCGCGGCAGCGGCAGCGCGCGG 1

## RESULT 346

US-10-310-914A-746424/c  
; Sequence 746424, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 746424  
; LENGTH: 24  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-746424

Query Match 0.7%; Score 19.2; DB 1; Length 24;  
Best Local Similarity 87.5%; Pred. No. 9.2e+02;  
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 279 CCTCTCTCACCACCTCTCTCTCT 302  
Db 24 CGCGCGGCACCGCTCTCTCTCTCT 1

## RESULT 347

US-10-310-914A-78085  
; Sequence 78085, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 78085  
; LENGTH: 24  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-78085

Query Match 0.7%; Score 19.2; DB 1; Length 24;  
Best Local Similarity 87.5%; Pred. No. 9.2e+02;  
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 647 GCAGCGGCAGCAGCGCGCGCGG 670  
Db 1 GCAGCGGCAGCGCGCGCGCGCGG 24

## RESULT 348

US-10-310-914A-78086  
; Sequence 78086, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 78086  
; LENGTH: 24  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-78086

Query Match 0.7%; Score 19.2; DB 1; Length 24;  
Best Local Similarity 87.5%; Pred. No. 9.2e+02;  
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 647 GCAGCGGCAGCAGCGCGCGCGG 670



Db 1 GCGCGCGCGCGCGCGCGCGCGCG 24  
|||||

## RESULT 349

US-10-310-914A-78304/c  
; Sequence 78304, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 78304  
; LENGTH: 24  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-78304

Query Match 0.7%; Score 19.2; DB 1; Length 24;  
Best Local Similarity 87.5%; Pred. No. 9.2e+02;  
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGCGCAGCGCGCGCGCGCGG 671  
Db 24 CCGCGCGCGCAGCGCGCGCGCGG 1  
|||||

## RESULT 350

US-10-310-914A-78310/c  
; Sequence 78310, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 78310  
; LENGTH: 24  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-78310

Query Match 0.7%; Score 19.2; DB 1; Length 24;  
Best Local Similarity 87.5%; Pred. No. 9.2e+02;  
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 641 CAGCGCGCAGCGCGCAGCGCGCG 664  
Db 24 CCGCGCGCGCAGCGCGCGCGCGG 1  
|||||

## RESULT 351

US-10-310-914A-791463/c  
; Sequence 791463, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 791463  
; LENGTH: 24  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-791463

Query Match 0.7%; Score 19.2; DB 1; Length 24;  
Best Local Similarity 87.5%; Pred. No. 9.2e+02;  
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 650 GCGGAGCGCGCGCGCGCGCGGG 673  
Db 24 GCGGAGCGCGCGCGCGCGCGGG 1  
|||||

## RESULT 352

US-10-310-914A-795954/c  
; Sequence 795954, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 795954  
; LENGTH: 24  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-795954

Query Match 0.7%; Score 19.2; DB 1; Length 24;  
Best Local Similarity 87.5%; Pred. No. 9.2e+02;  
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGCGCAGCGCGCGCGCGCGG 671  
Db 24 CCGCGCGCGCAGCGCGCGCGCGG 1  
|||||

## RESULT 353

US-10-310-914A-79765/c  
; Sequence 79765, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 79765  
; LENGTH: 24  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-79765

Query Match 0.7%; Score 19.2; DB 1; Length 24;  
Best Local Similarity 87.5%; Pred. No. 9.2e+02;  
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 645 CAGCAGCGCGCAGCGCGCGCGGG 668  
|||||

```
Db      24  CGCGCGCGCGCAGCGCGCGCGG 1
;
;   NUMBER OF SEQ ID NOS: 1388402
;   SOFTWARE: PatentIn version 3.3
;   SEQ ID NO 838208
;   LENGTH: 24
;   TYPE: RNA
;   ORGANISM: Human
US-10-310-914A-838208

Query Match      0.7%;   Score 19.2;   DB 1;   Length 24;
Best Local Similarity 87.5%;   Pred. No. 9.2e+02;
Matches 21;   Conservative 0;   Mismatches 3;   Indels 0;   Gaps 0;

QY      647  GCAGCGCGCAGCAGCGCGCGCGCG 670
Db      1    GCGCGCGCGCGCGCGCGCGCGCG 24

RESULT 357
US-10-310-914A-844403/c
; Sequence 844403, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 844403
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-844403

Query Match      0.7%;   Score 19.2;   DB 1;   Length 24;
Best Local Similarity 87.5%;   Pred. No. 9.2e+02;
Matches 21;   Conservative 0;   Mismatches 3;   Indels 0;   Gaps 0;

QY      648  CAGCGCGCAGCAGCGCGCGCGCGG 671
Db      24  CGCGCGCGCGCGCGCGCGCGCGGG 1

RESULT 358
US-10-310-914A-87752/c
; Sequence 87752, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 87752
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-87752

Query Match      0.7%;   Score 19.2;   DB 1;   Length 24;
Best Local Similarity 87.5%;   Pred. No. 9.2e+02;
Matches 21;   Conservative 0;   Mismatches 3;   Indels 0;   Gaps 0;

QY      648  CAGCGCGCAGCAGCGCGCGCGCGG 671
Db      24  CGCGCGCGCGCGCGCGCGCGCGGG 1

RESULT 359
US-10-310-914A-87766/c
; Sequence 87766, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 87766
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-87766

Query Match      0.7%;   Score 19.2;   DB 1;   Length 24;
Best Local Similarity 87.5%;   Pred. No. 9.2e+02;
Matches 21;   Conservative 0;   Mismatches 3;   Indels 0;   Gaps 0;

QY      645  CAGCAGCGCGCAGCAGCGCGCGCGG 668
Db      24  CGCGCGCGCGCGCGCGCGCGCGGG 1

RESULT 355
US-10-310-914A-807649
; Sequence 807649, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 807649
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-807649

Query Match      0.7%;   Score 19.2;   DB 1;   Length 24;
Best Local Similarity 87.5%;   Pred. No. 9.2e+02;
Matches 21;   Conservative 0;   Mismatches 3;   Indels 0;   Gaps 0;

QY      647  GCAGCGCGCAGCAGCGCGCGCGCGG 670
Db      1    GCGCGCGCGCGCGCGCGCGCGCGG 24

RESULT 356
US-10-310-914A-838208
; Sequence 838208, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
```

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RESULT 359
US-10-310-914A-899422/c
; Sequence 899422, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 899422
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-899422

Query Match          0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGCGGG 674
    ||||| ||||| ||||| ||||| |||||
DB 24 CGCGCGCGCGCGCGCGCGGAGG 1

RESULT 360
US-10-310-914A-899619/c
; Sequence 899619, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 899619
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-899619

Query Match          0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGCGGG 674
    ||||| ||||| ||||| ||||| |||||
DB 24 CGCGCGCGCGCGCGCGCGGAGG 1

RESULT 361
US-10-310-914A-899619/c
; Sequence 899619, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 899619
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-899619

Query Match          0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 657 CAGCGCGCGCGCGCGGGGTGTA 680
    ||||| ||||| ||||| ||||| |||||
DB 24 CGCGCGCGCGCGCGCGGGGTGA 1

RESULT 362
US-10-310-914A-938142/c
; Sequence 938142, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 938142
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-938142

Query Match          0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 645 CAGCAGCGCGCAGCAGCGCGGG 668
    ||||| ||||| ||||| ||||| |||||
DB 1 CAGCAGCAGCAGCAGCAGCAGCGG 24

RESULT 363
US-10-310-914A-94850/c
; Sequence 94850, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 94850
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-94850

Query Match          0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGCGCAGCAGCGCGCGGG 671
    ||||| ||||| ||||| ||||| |||||
DB 24 CGCGCGCGCGCGCGCGCGGCGG 1

RESULT 364
US-10-310-914A-94850/c
; Sequence 94850, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 94850
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-94850

Query Match          0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGCGCAGCAGCGCGCGGG 671
    ||||| ||||| ||||| ||||| |||||
DB 24 CGCGCGCGCGCGCGCGCGGCGG 1
```

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RESULT 364
US-10-310-914A-94851/c
; Sequence 94851, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 94851
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-94851

Query Match      0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGCGCGCGCGG 671
Db 24 CGCGCGCGCGCGCGCGCGCGCGG 1

RESULT 365
US-10-310-914A-94852/c
; Sequence 94852, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 94852
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-94852

Query Match      0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGCGCGCGCGG 671
Db 24 CGCGCGCGCGCGCGCGCGCGCGG 1

RESULT 366
US-10-310-914A-94853/c
; Sequence 94853, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 94853
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-94853

Query Match      0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGCGCGCGCGG 671
Db 24 CGCGCGCGCGCGCGCGCGCGCGG 1

RESULT 367
US-10-310-914A-983803/c
; Sequence 983803, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 983803
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-983803

Query Match      0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGCGCGCGCGG 671
Db 24 CGCGCGCGCGCGCGCGCGCGCGG 1

RESULT 368
US-10-310-914A-983804/c
; Sequence 983804, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 983804
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-983804

Query Match      0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGCGCGCGCGG 671
Db 24 CGCGCGCGCGCGCGCGCGCGCGG 1
```

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RESULT 369
US-10-310-914A-983805/c
; Sequence 983805, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 983805
; LENGTH: 24
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-983805

Query Match          0.7%; Score 19.2; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 9.2e+02;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 648 CAGCGGCACAGCGCGCGCGCGG 671
DB 24 CGCGCGCGCGCGCGCGCGCGG 1

RESULT 370
US-10-310-914A-939658/c
; Sequence 939658, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 939658
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-939658

Query Match          0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 5.2e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 654 CAGCAGCGCGCGCGCGG 672
DB 19 CAGCAGCGCGCGCGG 1

RESULT 371
US-10-310-914A-939661/c
; Sequence 939661, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 939661
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```
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-939661

Query Match          0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 5.2e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGCGG 671
DB 19 GCAGCAGCGCGCGCGCGG 1

RESULT 372
US-11-083-784-266197
; Sequence 266197, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266197
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266197

Query Match          0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 5.2e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 447 GAACAAGCCTCGTCCAAA 465
DB 1 GAACAAGCCTCGTCCAAA 19

RESULT 373
US-11-083-784-266202
; Sequence 266202, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
```

```
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266202
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266202

Query Match          0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 5.2e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      823 GAACCCGCTGCTGGATGA 841
Db       1 GAACCCGUGUGUGGAUGA 19

RESULT 374
US-11-083-784-266205
; Sequence 266205, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266205
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266205

Query Match          0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 5.2e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1331 TCAAGAACCTGCTCAACAT 1349
Db       1 UCAAGAACCUGGCUCAACAU 19

RESULT 375
US-11-083-784-266209
; Sequence 266209, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266209
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266209

Query Match          0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 5.2e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      503 CGGAGAGGATCATCATCAA 521
Db       1 CGGAGAGGAGCAUCAUCA 19

RESULT 377
US-11-083-784-266217
; Sequence 266217, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18

; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266216
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266216

Query Match          0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 5.2e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      446 GGAACAAGCCTCGTCCAA 464
Db       1 GGAACAAGCCUGGUCAA 19

RESULT 376
US-11-083-784-266216
; Sequence 266216, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266216
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266216

Query Match          0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 5.2e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      446 GGAACAAGCCTCGTCCAA 464
Db       1 GGAACAAGCCUGGUCAA 19
```

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; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266217
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266217

Query Match          0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 5.2e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 386 CCGCAGCGCTTCTATGAT 404
Db 1 CCGCAGCGCUUUAUGAU 19

RESULT 378
US-11-083-784-266231
; Sequence 266231, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266231
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266231

Query Match          0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 5.2e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 530 GCACGCGACATGAGACCTA 548
Db 1 GCACGCGACAUAGACCUA 19

RESULT 379
US-11-083-784-266236
; Sequence 266236, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266236
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266236

Query Match          0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 5.2e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1344 CAACATCATCGACTTTGTG 1362
Db 1 CAACAUCAUCGACUUUGUG 19

RESULT 380
US-11-083-784-266242
; Sequence 266242, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266242
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266242

Query Match          0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 5.2e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1341 GCTCAACATCATCGACTTT 1359
Db 1 GCUCAACAUCGACUUCUU 19

RESULT 381
US-11-083-784-266256
; Sequence 266256, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
```

```
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266256
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266256
```

```
Query Match 0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 5.2e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1330 GTCAAGAACTGCTCAACA 1348
|:|||||:|||||:|||||
Db 1 GUCAAGAACCGCUCAACA 19
```

```
RESULT 382
US-11-083-784-266264
; Sequence 266264, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266264
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266264
```

```
Query Match 0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 5.2e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1648 GACCACACCGACTTCAAGA 1666
|||||:|||||:|||||
Db 1 GACCACACCGACUUAAGA 19
```

```
RESULT 383
US-11-083-784-266276
; Sequence 266276, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
```

```
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266276
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266276

Query Match 0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 5.2e+02;
Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 1343 TCAACATCATCGACTTTGT 1361
:|||||:|||||:|||||
Db 1 UCAACAUCACGACUUGU 19
```

```
RESULT 384
US-11-083-784-266279
; Sequence 266279, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266279
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266279
```

```
Query Match 0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 5.2e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 2325 GAAGTCCTCACCTCTCTT 2343
|||||:|||||:|||||
Db 1 GAGGUCCUACCCUCUCU 19
```

```
RESULT 385
US-11-083-784-266287
; Sequence 266287, Application US/11083784
```



```
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266287
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266287

Query Match      0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 5.2e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1652 ACACCGACTTCAGAACAT 1670
DB 1 ACACCGACUUCAGAGCAU 19

RESULT 386
US-11-083-784-266291
; Sequence 266291, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266291
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266291

Query Match      0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 5.2e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 388 GCAGCGCTTCTATGATCA 406
DB 1 GCAGCGCUUCUUAUGAUA 19

; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266295
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266295

Query Match      0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 5.2e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1650 CCACACCGACTTCAGAAC 1668
DB 1 CCACACCGACUUCAGAGCA 19

RESULT 387
US-11-083-784-266295
; Sequence 266295, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266295
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266295

Query Match      0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 5.2e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1650 CCACACCGACTTCAGAAC 1668
DB 1 CCACACCGACUUCAGAGCA 19

RESULT 388
US-11-083-784-266296
; Sequence 266296, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266296
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266296

Query Match      0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 5.2e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1335 GAACCTGCTCAACATCATC 1353
DB 1335 GAACCTGCTCAACATCATC 1353
```

```
Db      1 GAACCUCCUACAACAUCAUC 19

RESULT 389
US-11-083-784-266297
; Sequence 266297, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266297
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266297

Query Match      0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 5.2e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      447 GAACAGCCTCCCTCCAAA 465
Db      1 GAACAGCCUCCUCCUCAA 19

RESULT 390
US-11-083-784-266299
; Sequence 266299, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266299
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266299

Query Match      0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 5.2e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      823 GAACCTGCTGCTGGATGA 841
Db      1 GAACCCUGCUGCUGGAUGA 19

RESULT 391
US-11-083-784-266301
; Sequence 266301, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266301
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266301

Query Match      0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 5.2e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      1331 TCAAGAACCTGCTCAACAT 1349
Db      1 UCAAGAACCCUGCUCACAU 19

RESULT 392
US-11-083-784-266302
; Sequence 266302, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266302
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266302
```

```
Query Match          0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 5.2e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 446 GGAACAAGCTCCGTCACAA 464
      |||||:||||:||||:||||:
Db 1 GGAACAAGCCUCCGCAAA 19

RESULT 393
US-11-083-784-266304
; Sequence 266304, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266304
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266304

Query Match          0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 5.2e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 503 CCGAGAAGATCATCATCAA 521
      |||||:||||:||||:||||:
Db 1 CCGAGAAGCAUCAUCAAA 19

RESULT 394
US-11-083-784-266305
; Sequence 266305, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266305
; LENGTH: 19
; TYPE: RNA
US-11-083-784-266305

; ORGANISM: Homo sapiens
US-11-083-784-266305

Query Match          0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 5.2e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 386 CCGACGCGCTTCTTATGAT 404
      |||||:||||:||||:||||:
Db 1 CCGACGCGCUCUAUGAU 19

RESULT 395
US-11-083-784-266317
; Sequence 266317, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266317
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266317

Query Match          0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 5.2e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 530 GCACGCGACATGAGACCTA 548
      |||||:||||:||||:||||:
Db 1 GCACGCGACAGAGACCUA 19

RESULT 396
US-11-083-784-266318
; Sequence 266318, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; TYPE: RNA
```

```
; SEQ ID NO 266318
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266318

Query Match          0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 5.2e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1344 CAACATCATCGACTTGTG 1362
|||||:|||||:|||||:|
Db 1 CAACAUCAGCAGCUUGUG 19

RESULT 397
US-11-083-784-266323
; Sequence 266323, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266323
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266323

Query Match          0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 5.2e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1341 GCTCACATCATCGACTTT 1359
|||||:|||||:|||||:|
Db 1 GCUCAACAUCAGCAGCUU 19

RESULT 398
US-11-083-784-266333
; Sequence 266333, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
```

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```
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266333
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266333

Query Match          0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 5.2e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1330 GTCAGAACCTGCTCAACA 1348
|:|||||:|||||:|
Db 1 GUCAGAACCGUCUACA 19

RESULT 399
US-11-083-784-266336
; Sequence 266336, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266336
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266336

Query Match          0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 5.2e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1648 GACCACACCGACTTCAAGA 1666
|||||:|||||:|||||:|
Db 1 GACCACACCGAGCUCAAGA 19

RESULT 400
US-11-083-784-266341
; Sequence 266341, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
```

; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 266341  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-266341

Query Match 0.7%; Score 19; DB 1; Length 19;  
Best Local Similarity 63.2%; Pred. No. 5.2e+02;  
Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 1343 TCAACATCATCGACTTTGT 1361  
DB 1 UCAACAUCAUCGACUUUGU 19

## RESULT 401

US-11-083-784-266346  
; Sequence 266346, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 266346  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-266346

Query Match 0.7%; Score 19; DB 1; Length 19;  
Best Local Similarity 84.2%; Pred. No. 5.2e+02;  
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1652 ACACCGACTTCAGAACAT 1670  
DB 1 ACACCGACUUCAGAACAU 19

## RESULT 402

US-11-083-784-266350  
; Sequence 266350, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784

; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 266350  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-266350

Query Match 0.7%; Score 19; DB 1; Length 19;  
Best Local Similarity 68.4%; Pred. No. 5.2e+02;  
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 388 GCAGCGCTTTATGATCA 406  
DB 1 GCAGCGCUUUAUGAUCA 19

## RESULT 403

US-11-083-784-266351  
; Sequence 266351, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 266351  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-266351

Query Match 0.7%; Score 19; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 5.2e+02;  
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1650 CCACACCGACTTCAGAAC 1668  
DB 1 CCACACCGACUUCAGAAC 19

## RESULT 404

US-11-083-784-266352  
; Sequence 266352, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen

```
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266352
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266352
```

```
Query Match 0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 5.2e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1335 GAACCTGCTCAACATCATC 1353
|||||:||||:||||:|
Db 1 GAACCGUCUACAACAUC 19
```

```
RESULT 405
US-11-083-784-266359
; Sequence 266359, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266359
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266359
```

```
Query Match 0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 5.2e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 494 GCGAGGCGTCGAGAGAT 512
|||||:||||:||||:|
Db 1 GCGAGGCGUCGAGAAGAU 19
```

```
RESULT 406
US-11-083-784-266360
; Sequence 266360, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
```

```
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266360
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266360
```

```
Query Match 0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 5.2e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1332 CAAGACCTGCTCAACATC 1350
|||||:||||:||||:|
Db 1 CAAGAACCUGCUACAAC 19
```

```
RESULT 407
US-11-083-784-266365
; Sequence 266365, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266365
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266365
```

```
Query Match 0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 5.2e+02;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 506 AGAAGATCATCATCAACGT 524
|||||:||||:||||:|
Db 1 AGAAGAUCUACAACAAC 19
```

```
RESULT 408
US-11-101-244-266197
; Sequence 266197, Application US/1101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
```



RESULT 416  
US-11-101-244-266242  
; Sequence 26242, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Khvarmacon, Inc.  
; APPLICANT: Khvarova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin



; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 266242  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-266242

Query Match 0.7%; Score 19; DB 1; Length 19;  
Best Local Similarity 68.4%; Pred. No. 5.2e+02;  
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1341 GCTCAACATCATCGACTTT 1359  
DB 1 GCUCAACAUCAUGACUUU 19

RESULT 417  
US-11-101-244-266256  
; Sequence 266256, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmakon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 266256  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-266256

Query Match 0.7%; Score 19; DB 1; Length 19;  
Best Local Similarity 84.2%; Pred. No. 5.2e+02;  
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1330 GTCAGACCTCTCTCAACA 1348  
DB 1 GUCAGAACCCUGCUCAACA 19

RESULT 418  
US-11-101-244-266264  
; Sequence 266264, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmakon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 266264  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-266264

Query Match 0.7%; Score 19; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 5.2e+02;  
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1648 GACCACACCGACTTCAAGA 1666  
DB 1 GACCACACCGACUUAAGA 19

RESULT 419  
US-11-101-244-266276  
; Sequence 266276, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmakon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 266276  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-266276

Query Match 0.7%; Score 19; DB 1; Length 19;  
Best Local Similarity 63.2%; Pred. No. 5.2e+02;  
Matches 12; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 1343 TCACATCATCGACTTTGCT 1361  
DB 1 UCAACAUCGACUUGU 19

RESULT 420  
US-11-101-244-266279  
; Sequence 266279, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmakon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen



```
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266296
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266296

Query Match
Best Local Similarity 0.7%; Score 19; DB 1; Length 19;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1335 GAACCTGCTCAACATCATC 1353
Db 1 GAACCCUGCUCACAUCAUC 19

RESULT 425
US-11-101-244-266297
; Sequence 266297, Application US/11/101,244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266297
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266297

Query Match
Best Local Similarity 0.7%; Score 19; DB 1; Length 19;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 447 GAACAGCTCGTCCGTCAAA 465
Db 1 GAACAGCCUCGCUCCAAA 19

RESULT 426
US-11-101-244-266299
; Sequence 266299, Application US/11/101,244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07

; CURRENT APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266299
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266299

Query Match
Best Local Similarity 0.7%; Score 19; DB 1; Length 19;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 823 GAACCTGCTCGTGGATGA 841
Db 1 GAACCCUGCUGCUGGAUGA 19

RESULT 427
US-11-101-244-266301
; Sequence 266301, Application US/11/101,244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266301
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266301

Query Match
Best Local Similarity 0.7%; Score 19; DB 1; Length 19;
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1331 TCAGAACCTGCTCAACAT 1349
Db 1 UCAGAGCCUCGCUCAACAU 19

RESULT 428
US-11-101-244-266302
; Sequence 266302, Application US/11/101,244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
```

```
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266305
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266302

Query Match      0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 5.2e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 446 GGAACAAGCTCGTCCAA 464
Db 1 GGNACAGCCUCCGUCAA 19

RESULT 429
US-11-101-244-266304
; Sequence 266304, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266304
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266304

Query Match      0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 5.2e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 503 CGGAGAAGATCATCAAA 521
Db 1 CGGAGAAGAUCAUCA 19

RESULT 430
US-11-101-244-266305
; Sequence 266305, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266305
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266305

Query Match      0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 5.2e+02;
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 386 CCGCAGCGCTTCTTATGAT 404
Db 1 CCGCAGCGCUUUAUGAU 19

RESULT 431
US-11-101-244-266317
; Sequence 266317, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266317
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266317

Query Match      0.7%; Score 19; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 5.2e+02;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 530 GCACGCGACATGAGACCTA 548
Db 1 GCACGCGACAUGAGACCUA 19

RESULT 432
US-11-101-244-266318
; Sequence 266318, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
```

; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 266318  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-266318

Query Match 0.7%; Score 19; DB 1; Length 19;  
Best Local Similarity 68.4%; Pred. No. 5.2e+02;  
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;  
QY 1344 CAACATCATCGACTTTGTG 1362  
|||||:||||:||||:  
Db 1 CAACAUCGACUUGUG 19

## RESULT 433

US-11-101-244-266323  
; Sequence 266323, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/101,244

; PRIOR FILING DATE: 2005-04-07

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 266323

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

US-11-101-244-266323

Query Match 0.7%; Score 19; DB 1; Length 19;  
Best Local Similarity 68.4%; Pred. No. 5.2e+02;  
Matches 13; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1341 GCTCAACATCATCGACTTT 1359  
|||||:||||:||||:  
Db 1 GCUCAUCAUGGACUUU 19

## RESULT 434

US-11-101-244-266333  
; Sequence 266333, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/101,244

; PRIOR FILING DATE: 2005-04-07

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 266333  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-266333

Query Match 0.7%; Score 19; DB 1; Length 19;  
Best Local Similarity 84.2%; Pred. No. 5.2e+02;  
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;  
QY 1330 GTCAGAACCTGCTCAACA 1348  
|||||:||||:||||:  
Db 1 GUCAAGACCUGCUACA 19

## RESULT 435

US-11-101-244-266336  
; Sequence 266336, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/101,244

; PRIOR FILING DATE: 2005-04-07

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 266336

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

US-11-101-244-266336

Query Match 0.7%; Score 19; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 5.2e+02;  
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1648 GACCACACCGACTTCAAGA 1666  
|||||:||||:||||:  
Db 1 GACCACACCGACUUCAGA 19

## RESULT 436

US-11-101-244-266341  
; Sequence 266341, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/101,244

; PRIOR FILING DATE: 2005-04-07

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14



```

; SEQ ID NO 266352
;
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo
US-11-101-244-266352

```

Query Match 0.7%; Score 19; DB 1; Length 19;  
Best Local Similarity 78.9%; Pred. No. 5.2e+02;  
Matches 15; Conservative 4; Mismatches 0; Indels

Qy 1335 GAACCTGCTCAACATCATC 1353  
|||||:|||||:|  
Db 1 GAACCTGCTCAACATCATC 19

```

RESULT 441
US-11-101-244-266359
; Sequence 266359, Application US/11101244
; Publication No. US2005024679AA1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringen, Stephen
; TITLE OF INVENTION: Functional and Hypo
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,2
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266359
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266359

```

Query Match 0.7%; Score 19; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. NO. 5.2e+02;  
Matches 17; Conservative 2; Mismatches 0; Indels

Qy 494 GCGAGGCGTCGGAGAAGAT 512  
|||||:|||||:  
Db 1 GCGAGGCGUCGGAGAAGAU 19

```

RESULT 442
US-11-101-244-266360
; Sequence 266360, Application US/1101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leske, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperf
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266360

```

```
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266360
```

Query Match 0.7%; Score 19; DB 1; Length 19;  
Best Local Similarity 84.2%; Pred. No. 5.2e+02;  
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1332 CAAGAACCTGCTCAACATC 1350  
Db 1 CAAGAACCTGCTCAACATC 19

```

RESULT  443
US-11-101-244-266365
; Sequence 266365, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Khavacoon, Inc.
; APPLICANT: Dharova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266365
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266365

```

Query Match 0.7%; Score 19; DB 1; Length 19;  
Best Local Similarity 78.9%; Pred. No. 5.2e+02;  
Matches 15; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 506 AGAAGATCATCATCAACGT 524  
Db 1 AGAAGAUCAUCAACGU 19

```

RESULT 444
US-10-310-914A-706728
; Sequence 706728, Application US/10310914A
; Publication No. US2006003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuizat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO. 706728
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-706728

```

Query Match 0.7%; Score 19; DB 1; Length 20;  
Best Local Similarity 78.9%; Pred. No. 6e+02;  
Matches 15; Conservative 4; Mismatches 0; Indels





QY 644 GCAGCAGCGCGCAGCAGCGCGG 665  
|||  
Db 22 CGCGCAGCGCGCAGCGCGCGG 1

## RESULT 450

US-10-310-914A-138525/c  
; Sequence 138525, Application US/10310914A  
; Publication No. US20060003322A1

## GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 138525  
; LENGTH: 22  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-138525

Query Match 0.7%; Score 18.8; DB 1; Length 22;  
Best Local Similarity 90.9%; Pred. No. 8.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 647 GCAGCGCGCAGCAGCGCGCGG 668  
|||  
Db 22 GCAGCGCGCAGCAGCGCGCGG 1

## RESULT 451

US-10-310-914A-138526/c  
; Sequence 138526, Application US/10310914A  
; Publication No. US20060003322A1

## GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 138526  
; LENGTH: 22  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-138526

Query Match 0.7%; Score 18.8; DB 1; Length 22;  
Best Local Similarity 90.9%; Pred. No. 8.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 CGCGCAGCGCGCGCGCGCGG 671  
|||  
Db 22 CGCGCAGCGCGCGCGCGCGG 1

## RESULT 452

US-10-310-914A-138544/c  
; Sequence 138544, Application US/10310914A  
; Publication No. US20060003322A1

## GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01

QY 650 CGCGCAGCGCGCGCGCGCGG 671

; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 138544  
; LENGTH: 22  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-138544

Query Match 0.7%; Score 18.8; DB 1; Length 22;  
Best Local Similarity 90.9%; Pred. No. 8.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 645 CAGCAGCGCGCAGCAGCGCGG 666  
|||  
Db 22 CGCGCAGCGCGCGCGCGCGG 1

## RESULT 453

US-10-310-914A-139798/c  
; Sequence 139798, Application US/10310914A  
; Publication No. US20060003322A1

## GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 139798  
; LENGTH: 22  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-139798

## Query Match

Best Local Similarity 90.9%; Score 18.8; DB 1; Length 22;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 647 GCAGCGCGCAGCAGCGCGCGG 668  
|||  
Db 22 GCAGCGCGCGCGCGCGCGG 1

## RESULT 454

US-10-310-914A-163370/c  
; Sequence 163370, Application US/10310914A  
; Publication No. US20060003322A1

## GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 163370  
; LENGTH: 22  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-163370

## Query Match

Best Local Similarity 90.9%; Score 18.8; DB 1; Length 22;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 CGCGCAGCGCGCGCGCGCGG 671



```
Dbb 1 AGCGGCAGAGCGCGCGCGCG 22

RESULT 460
US-10-310-914A-229038/c
; Sequence 229038, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 229038
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-229038

Query Match
Best Local Similarity 0.7%; Score 18.8; DB 1; Length 22;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 632 GCGGCGGTGCAGCAGCAGCGG 653
Db 22 GCGGCGCGGAGGAGCAGCAGCGG 1

RESULT 461
US-10-310-914A-229050/c
; Sequence 229050, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 229050
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-229050

Query Match
Best Local Similarity 0.7%; Score 18.8; DB 1; Length 22;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGCGCGCGC 669
Db 22 CGGAGGCAGCAGCGCGCGCGC 1

RESULT 462
US-10-310-914A-238178/c
; Sequence 238178, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 238178
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-238178

Query Match
Best Local Similarity 0.7%; Score 18.8; DB 1; Length 22;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 657 CAGCGCGCGCGCGCGCGGCTGT 678
Db 22 CGCGCGCGCGCGCGCGGCTGT 1
```

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; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 238178
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-238178

Query Match
Best Local Similarity 0.7%; Score 18.8; DB 1; Length 22;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 647 GCAGCGGCAGCAGCGCGCGCGG 668
Db 22 GCAGCGCGCGCGCGCGCGCGG 1

RESULT 463
US-10-310-914A-241949/c
; Sequence 241949, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 241949
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-241949

Query Match
Best Local Similarity 0.7%; Score 18.8; DB 1; Length 22;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 22 GCGGCGCGCGCGCGCGCGCGG 1

RESULT 464
US-10-310-914A-285281/c
; Sequence 285281, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 285281
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-285281

Query Match
Best Local Similarity 0.7%; Score 18.8; DB 1; Length 22;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 657 CAGCGCGCGCGCGCGGCTGT 678
Db 22 CGCGCGCGCGCGCGGCTGT 1
```

```

; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 341340
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-341340

Query Match          0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      650 GCGGCAGCAGCGCGCGCGCGG 671
        ||||| || ||||| |||||
Db      22 GCGGCGCGCGCGCGCGCGG 1

RESULT 468
US-10-310-914A-353980/c
; Sequence 353980, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 353980
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-353980

Query Match          0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      647 GCAGCGCGCAGCAGCGCGCGCGG 668
        ||||| || ||||| |||||
Db      22 GCAGCGCGCGCGCGCGCGG 1

RESULT 469
US-10-310-914A-353981/c
; Sequence 353981, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 353981
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-353981

Query Match          0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      647 GCAGCGCGCAGCAGCGCGCGCGG 668
        ||||| || ||||| |||||
Db      22 GCAGCGCGCGCGCGCGCGG 1

; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 341340
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-341340

Query Match          0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      650 GCGGCAGCAGCGCGCGCGCGG 671
        ||||| || ||||| |||||
Db      22 GCGGCGCGCGCGCGCGCGG 1

RESULT 466
US-10-310-914A-341339/c
; Sequence 341339, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 341339
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-341339

Query Match          0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      650 GCGGCAGCAGCGCGCGCGCGG 671
        ||||| || ||||| |||||
Db      22 GCGGCGCGCGCGCGCGCGG 1

RESULT 467
US-10-310-914A-341340/c
; Sequence 341340, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
```

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RESULT 470
US-10-310-914A-353982/c
; Sequence 353982, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 353982
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-353982

Query Match          0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 647 GCAGCGGCAGCAGCGCGCGG 668
Db 22 GCAGCGGCAGCAGCGCGCGG 1

RESULT 471
US-10-310-914A-370349
; Sequence 370349, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 370349
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-370349

Query Match          0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 647 GCAGCGGCAGCAGCGCGCGG 668
Db 22 GCAGCGGCAGCAGCGCGCGG 1

RESULT 472
US-10-310-914A-414673/c
; Sequence 414673, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 414673
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-414673

Query Match          0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GCGGGGTCGGTGGTGGGGGAG 227
Db 1 CGGAGCGGCGGCGGCGGCGAG 22

RESULT 473
US-10-310-914A-432637/c
; Sequence 432637, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 432637
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-432637

Query Match          0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 636 CGGTGCAGGCAGCAGCGCGCAGC 657
Db 22 CGGCGCAGGCAGCAGCGCGCAGC 1

RESULT 474
US-10-310-914A-432653/c
; Sequence 432653, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 432653
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-432653

Query Match          0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 647 GCAGCGGCAGCAGCGCGCGG 668
Db 22 GCGGCGCGCAGCAGCGCGCGG 1

RESULT 475
US-10-310-914A-432653/c
; Sequence 432653, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 432653
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-432653

Query Match          0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGCGCGCGC 669
Db 22 CGGCGCGCAGCAGCGCGCGCGC 1
```

```
; SEQ ID NO 414673
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-414673

Query Match          0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 636 CGGTGCAGGCAGCAGCGCGCAGC 657
Db 22 CGGCGCAGGCAGCAGCGCGCAGC 1

RESULT 473
US-10-310-914A-432637/c
; Sequence 432637, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 432637
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-432637

Query Match          0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 647 GCAGCGGCAGCAGCGCGCGG 668
Db 22 GCGGCGCGCAGCAGCGCGCGG 1

RESULT 474
US-10-310-914A-432653/c
; Sequence 432653, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 432653
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-432653

Query Match          0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGCGCGCGC 669
Db 22 CGGCGCGCAGCAGCGCGCGCGC 1
```

```
RESULT 475
US-10-310-914A-432654/c
; Sequence 432654, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 432654
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-432654

Query Match      0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      648 CACGGCAGCGGCGGCGGC 669
Db      22 CGCGCGCGCAGCGGCGGCGC 1

RESULT 476
US-10-310-914A-484811
; Sequence 484811, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 484811
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-484811

Query Match      0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 86.4%; Pred. No. 8.2e+02;
Matches 19; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      2078 CCCAGCCCTGGCTCGGCCCC 2099
Db      1 CCCAGCCCCCGCCCGGCCCC 22

RESULT 477
US-10-310-914A-535595
; Sequence 535595, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 535595
```

```
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-535595

Query Match      0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 68.2%; Pred. No. 8.2e+02;
Matches 15; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY      274 CTCCTCTCTCTCCACACCTCC 295
Db      1 CUCCUCCUCCUCCUCCACUCC 22

RESULT 478
US-10-310-914A-59488/c
; Sequence 59488, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 59488
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-59488

Query Match      0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      265 ACCTCTGCTCTCTCTCTCTCTCC 286
Db      22 ACCTACTTCTCTCTCTCTCTCTCC 1

RESULT 479
US-10-310-914A-69717/c
; Sequence 69717, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 69717
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-69717

Query Match      0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      644 GCAGCAGCGGCAGCAGCGGCGG 665
Db      22 GCGCAGCGGCAGCAGCGGCGG 1

RESULT 480
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US-10-310-914A-69745/c
; Sequence 69745, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 69745
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-69745

Query Match          0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 645 CAGCAGCGCGCAGCGCGCGCGC 666
Db 22 CGCGCAGCGCAGCGCGCGCGC 1

RESULT 481
US-10-310-914A-705768/c
; Sequence 705768, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 705768
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-705768

Query Match          0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2086 CTGGCCTCGGCGCCCGCCCTG 2107
Db 22 CTGGCCTCGGCGCCCGCCCTG 1

RESULT 482
US-10-310-914A-711652/c
; Sequence 711652, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 711652
; LENGTH: 22
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; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-711652

Query Match          0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGTGGGTGGGCA 230
Db 22 GGGGTGGGTGGGTGGGTGGGGA 1

RESULT 483
US-10-310-914A-798847/c
; Sequence 798847, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 798847
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-798847

Query Match          0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 22 GCCGCAGCAGCGCGCGCGCGG 1

RESULT 484
US-10-310-914A-87751/c
; Sequence 87751, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 87751
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-87751

Query Match          0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 22 GCCGCAGCAGCGCGCGCGCGG 1

RESULT 485
US-10-310-914A-889437/c
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; Sequence 889437, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 889437
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-889437

Query Match          0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCAGCGCGCGCGCGCGCGCGG 674
Db 22 GCAGCGCGCGCGCGCGCGCGG 1

RESULT 486
US-10-310-914A-89782/c
; Sequence 89782, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 89782
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-89782

Query Match          0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCAGCGCGCGCGCGCGCGCGG 674
Db 22 GCAGCGCGCGCGCGCGCGCGG 1

RESULT 487
US-10-310-914A-89783/c
; Sequence 89783, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 89783
; LENGTH: 22
; TYPE: RNA
US-10-310-914A-89783

Query Match          0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 22 GCGGCAGCAGCGCGCGCGCGG 1

RESULT 488
US-10-310-914A-899416/c
; Sequence 899416, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 899416
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-899416

Query Match          0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 22 GCGGCAGCAGCGCGCGCGCGG 1

RESULT 489
US-10-310-914A-912810/c
; Sequence 912810, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 912810
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-912810

Query Match          0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 22 GCGGCAGCAGCGCGCGCGCGG 1

RESULT 490
US-10-310-914A-969284/c
; Sequence 969284, Application US/10310914A
```

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; ORGANISM: Human
US-10-310-914A-89783

Query Match          0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 22 GCGGCAGCAGCGCGCGCGCGG 1

RESULT 488
US-10-310-914A-899416/c
; Sequence 899416, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 899416
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-899416

Query Match          0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 22 GCGGCAGCAGCGCGCGCGCGG 1

RESULT 489
US-10-310-914A-912810/c
; Sequence 912810, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 912810
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-912810

Query Match          0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 212 GTGGGGTGGGGGCGGCGGCGG 233
Db 22 GGGGGGTGGGGGCGGCGGCGG 1

RESULT 490
US-10-310-914A-969284/c
; Sequence 969284, Application US/10310914A
```



```
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 969284
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-969284

Query Match          0.7%; Score 18.8; DB 1; Length 22;
Best Local Similarity 90.9%; Pred. No. 8.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 22 GCGGCGCGCGCGCGCGCGGCGG 1

RESULT 491
US-10-310-914A-100329
; Sequence 100329, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 100329
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-100329

Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 2 GCGGCGCGCGCGCGCGCGCGGCGG 23

RESULT 492
US-10-310-914A-1008716
; Sequence 1008716, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1008716
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
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US-10-310-914A-1008716

Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 1 GCGGCGCGCGCGCGCGCGCGGCGG 22

RESULT 493
US-10-310-914A-1008724
; Sequence 1008724, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1008724
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1008724

Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 2 GCGGCGCGCGCGCGCGCGCGGCGG 23

RESULT 494
US-10-310-914A-1065871/c
; Sequence 1065871, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1065871
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1065871

Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 22 GCGGCGCGCGCGCGCGCGCGGCGG 1

RESULT 495
US-10-310-914A-122956
; Sequence 122956, Application US/10310914A
; Publication No. US20060003322A1
```

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; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 122956
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-122956

Query Match 0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 22 GCGGCGGCGCGCGCGCGCGG 1

RESULT 496
US-10-310-914A-1295955/c
; Sequence 1295955, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1295955
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1295955

Query Match 0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 1 GCGGCGGCGCGCGCGCGCGG 22

RESULT 496
US-10-310-914A-1295955/c
; Sequence 1295955, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1295955
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1295955

Query Match 0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 GCGCAGCAGCGCGCGCGCGG 672
Db 22 CGGCGCAGCGCGCGCGGCTGG 1

RESULT 497
US-10-310-914A-156012/c
; Sequence 156012, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 156012
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-156012

Query Match 0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 22 GCGGCGGCGCGCGCGCGCGG 1

RESULT 500
US-10-310-914A-167689/c
; Sequence 167689, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 167688
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-167688

Query Match 0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 22 GCGGCGGCGCGCGCGCGCGG 1

RESULT 499
US-10-310-914A-167688/c
; Sequence 167688, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 167688
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-167688

Query Match 0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 2 GCGGCGGCGCGCGCGCGCGG 23

RESULT 499
US-10-310-914A-167688/c
; Sequence 167688, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 167688
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-167688

Query Match 0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 2 GCGGCGGCGCGCGCGCGCGG 23

RESULT 499
US-10-310-914A-167688/c
; Sequence 167688, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 167688
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-167688

Query Match 0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 22 GCGGCGGCGCGCGCGCGCGG 1

RESULT 500
US-10-310-914A-167689/c
; Sequence 167689, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 156012
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-156012
```

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; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 167689
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-167689

Query Match      0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 22 GCGGCAGCAGCGCGCGCGCGG 1

RESULT 501
US-10-310-914A-168028
; Sequence 168028, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 168028
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-168028

Query Match      0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 22 GCGGCAGCAGCGCGCGCGCGG 1

RESULT 502
US-10-310-914A-168029
; Sequence 168029, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 168029
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-168029
```

```
Query Match      0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 1 GCGGCAGCAGCGCGCGCGCGG 22

RESULT 503
US-10-310-914A-168030
; Sequence 168030, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 168030
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-168030

Query Match      0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 1 GCGGCAGCAGCGCGCGCGCGG 22

RESULT 504
US-10-310-914A-168031
; Sequence 168031, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 168031
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-168031

Query Match      0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 1 GCGGCAGCAGCGCGCGCGCGG 22

RESULT 505
US-10-310-914A-168032
; Sequence 168032, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
```

```
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 168032
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-168032

Query Match
Best Local Similarity 0.7%; Score 18.8; DB 1; Length 23;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 1 GCGGCGCGCGCGCGCGCGCGG 22

RESULT 506
US-10-310-914A-168033
; Sequence 168033, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 168033
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-168033

Query Match
Best Local Similarity 0.7%; Score 18.8; DB 1; Length 23;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 1 GCGGCGCGCGCGCGCGCGCGG 22

RESULT 507
US-10-310-914A-168050
; Sequence 168050, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 168050
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-168050

Query Match
Best Local Similarity 0.7%; Score 18.8; DB 1; Length 23;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 1 GCGGCGCGCGCGCGCGCGCGG 22

RESULT 508
US-10-310-914A-168051
; Sequence 168051, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 168051
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-168051

Query Match
Best Local Similarity 0.7%; Score 18.8; DB 1; Length 23;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 2 GCGGCGCGCGCGCGCGCGCGG 23

RESULT 509
US-10-310-914A-168052
; Sequence 168052, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 168052
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-168052

Query Match
Best Local Similarity 0.7%; Score 18.8; DB 1; Length 23;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 2 GCGGCGCGCGCGCGCGCGCGG 23

RESULT 510
US-10-310-914A-168053
; Sequence 168053, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
```

```
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 2 GCGGCGCGCGCGCGCGCGCGG 23

RESULT 508
US-10-310-914A-168051
; Sequence 168051, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 168051
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-168051

Query Match
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 2 GCGGCGCGCGCGCGCGCGCGG 23

RESULT 509
US-10-310-914A-168052
; Sequence 168052, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 168052
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-168052

Query Match
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 2 GCGGCGCGCGCGCGCGCGCGG 23

RESULT 510
US-10-310-914A-168053
; Sequence 168053, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
```

```
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 168053
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-168053

Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 2 GCGGCAGCAGCGCGCGCGCGG 23

RESULT 511
US-10-310-914A-168054
; Sequence 168054, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 168054
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-168054

Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 2 GCGGCAGCAGCGCGCGCGCGG 23

RESULT 512
US-10-310-914A-168055
; Sequence 168055, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 168055
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-168055

Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 2 GCGGCAGCAGCGCGCGCGCGG 23

RESULT 513
US-10-310-914A-168056
; Sequence 168056, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 168056
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-168056

Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 2 GCGGCAGCAGCGCGCGCGCGG 23

RESULT 514
US-10-310-914A-168057
; Sequence 168057, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 168057
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-168057

Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
Db 2 GCGGCAGCAGCGCGCGCGCGG 23

RESULT 515
US-10-310-914A-169388/c
; Sequence 169388, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
```

```
Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
```

```

; TITLE OF INVENTION:  uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 169388
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
; US-10-310-914A-169388

```

Query Match	0.7%	Score 18.8;	DB 1;	Length 23;
Best Local Similarity	90.9%;	Pred. No. 9.2e+02;		
Matches	20: Conservative	0: Mismatches	2: Indels	0: Gaps

QY 653 GCAGCAGCGCGCGCGGG 674  
|||  
Db 23 GCGGCGCGCGCGCGGG 2

RESULT 516  
US-10-310-914A-182883  
; Sequence 182883, Application US/10310914A  
; Publication NO. US20060003322A1

```

; ORGANIZATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: Shiler, Kuzat
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 182883
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-182883

```

Query Match	0.7%;	Score 18.8;	DB 1;	Length 23;
Best Local Similarity	90.9%;	Pred. No. 9.2e+02;		
Matches	20:	Conservative	0:	Mismatches 2;
		Indels	0:	Gaps

Qy 650 GCGGCAGCAGCGCGCGCGG 671  
|||  
pb 1 GCGGCGGCGCGCGCGCGG 22

RESULT 517  
US-10-310-914A-182884  
; Sequence 182884, Application US/10310914A  
; Publication No. US20060003322A1

```

; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Shiler, Kvuizat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 182884
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
; US-10-310-914A-182884

```

Query Match	0.7%	Score 18.8;	DB 1;	Length 23;
Best Local Similarity	90.9%	Pred. No. 9.2e+02;		
Matches 20;	Conservative	0;	Mismatches 2;	Indels 0;
				Gaps 0;

QY 650 GCGGAGCAGCGGCGGCGG 671  
|||||  
pb 1 GCGGCGGCGGCGGCGGCGG 22

RESULT 518  
US-10-310-914A-182885  
; Sequence 182885, Application US/10310914A  
. Publication No. US20060000332A1

```

; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 182885
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-182885

```

Query Match	0.7%	Score 18.8;	DB 1;	Length 23;
Best Local Similarity	90.9%;	Pred. No. 9.2e+02;		
Matches 20;	Conservative	0;	Mismatches 2;	Indels 0;
Gaps	0;			

Qy 650 GCGGCAGCAGCGCGCGCGCGG 671  
Db 1 GCGCGCGCGCGCGCGCGCGCGG 22

RESULT 519  
US-10-310-914A-182886  
; Sequence 182886, Application US/10310914A  
; Publication No. US20060003322A1

```

; ORGANISM: Homo sapiens
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kuvrat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 182886
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-182886

```

Query Match	0.7%	Score 18.8;	DB 1;	Length 23;
Best Local Similarity	90.9%	Pred. No. 9.2e+02;		
Matches 20;	Conservative	0;	Mismatches 2;	Indels 0;
Gaps 0				

Qy 650 GCGGACAGCGGCGGCGG 67T  
db 1 GCGGCGGCGGCGGCGG 22

RESULT 520  
US-10-310-914A-182892  
; Sequence 182892, Application US/10310914A  
; Publication No. US20060003322A1

: APPLICANT: Bentwich, Isaac  
 : APPLICANT: Shiler, Kvizat  
 : TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
 : TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 182892  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-182892

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 9.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671  
||||| ||||| ||||| ||||| |||||  
Db 2 GCGGCGGCGCGCGCGCGCGG 23

## RESULT 521

US-10-310-914A-182893  
; Sequence 182893, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 182893  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-182893

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 9.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671  
||||| ||||| ||||| ||||| |||||  
Db 2 GCGGCGGCGCGCGCGCGCGG 23

## RESULT 522

US-10-310-914A-182894  
; Sequence 182894, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 182894  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-182894

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 9.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671  
||||| ||||| ||||| ||||| |||||  
Db 2 GCGGCGGCGCGCGCGCGCGG 23

## RESULT 523

US-10-310-914A-186963/c  
; Sequence 186963, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 186963  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-186963

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 9.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 203 CCCGGGGGGGTGGGTGGGGGG 224  
||||| ||||| ||||| ||||| |||||  
Db 22 CCGGCGGGGTGGGTGGGGGG 1

## RESULT 524

US-10-310-914A-186968/c  
; Sequence 186968, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 186968  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-186968

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 9.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 204 CCGGGGGGGGTGGGTGGGGGGG 225  
||||| ||||| ||||| ||||| |||||  
Db 23 CTGGCGGGGTGGGTGGGGGGG 2

## RESULT 525

US-10-310-914A-189777/c  
; Sequence 189777, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 189777  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-189777

```
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 189777
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-189777
```

```
Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 651 CGGCAGCAGCGCGCGCGCGG 672
      ||||| ||||| ||||| |||||
Db 23 CGGCGCGCGCGCGCGCGCGG 2
```

## RESULT 526

```
US-10-310-914A-219244
; Sequence 219244, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 219244
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-219244
```

```
Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 650 GCGGCAGCAGCGCGCGCGCGG 671
      ||||| ||||| ||||| |||||
Db 1 GCGGCAGCAGCGCGCGCGCGG 22
```

## RESULT 527

```
US-10-310-914A-221970
; Sequence 221970, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 221970
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-221970
```

```
Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 86.4%; Pred. No. 9.2e+02;
Matches 19; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 208 GGGGGTGGGTGGGGGAGGC 229
```

```
Db 1 GCGGGUGGGGGGGGAGGAGGC 22
```

## RESULT 528

```
US-10-310-914A-223363/c
; Sequence 223363, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 223363
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-223363
```

```
Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 892 CCGGACGCGGGCGGGGTGGCG 913
      ||||| ||||| ||||| |||||
Db 23 CCGGGCGGGCGGGCGGGCGG 2
```

## RESULT 529

```
US-10-310-914A-226050
; Sequence 226050, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 226050
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-226050
```

```
Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 650 GCGGCAGCAGCGCGCGCGCGG 671
      ||||| ||||| ||||| |||||
Db 1 GCGGGCGCGCGCGCGCGCGG 22
```

## RESULT 530

```
US-10-310-914A-226051
; Sequence 226051, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
```



; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 226051  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-226051

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 9.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671  
||||| ||||| ||||| ||||| |||||  
Db 1 GCGGCAGCAGCGCGCGCGCGG 22

## RESULT 531

US-10-310-914A-226060  
; Sequence 226060, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 226060

; LENGTH: 23

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-226060

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 9.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671  
||||| ||||| ||||| ||||| |||||  
Db 2 GCGGCAGCAGCGCGCGCGCGG 23

## RESULT 532

US-10-310-914A-226061  
; Sequence 226061, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 226061

; LENGTH: 23

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-226061

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 9.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671  
||||| ||||| ||||| ||||| |||||

Db 2 GCGGCAGCAGCGCGCGCGCGG 23

## RESULT 533

US-10-310-914A-226062  
; Sequence 226062, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 226062

; LENGTH: 23

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-226062

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 9.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671  
||||| ||||| ||||| ||||| |||||  
Db 2 GCGGCAGCAGCGCGCGCGCGG 23

## RESULT 534

US-10-310-914A-226063  
; Sequence 226063, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 226063

; LENGTH: 23

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-226063

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 9.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671  
||||| ||||| ||||| ||||| |||||  
Db 2 GCGGCAGCAGCGCGCGCGCGG 23

## RESULT 535

US-10-310-914A-226064  
; Sequence 226064, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 226064  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-226064

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 9.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671  
||||| ||||| ||||| ||||| |||||  
Db 2 GCGCGCGCGCGCGCGCGCGCGG 23

## RESULT 536

US-10-310-914A-228870  
; Sequence 228870, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 228870  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-228870

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 9.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671  
||||| ||||| ||||| ||||| |||||  
Db 1 GCGGCGCGCGCGCGCGCGCGG 22

## RESULT 537

US-10-310-914A-238204/c  
; Sequence 238204, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 238204  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-238204

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 9.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 654 CAGCAGCGCGCGCGCGCGGCGC 675  
||||| ||||| ||||| ||||| |||||  
Db 22 CGGCGCGCGCGCGCGCGCGGCGC 1

## RESULT 538

US-10-310-914A-255935/c  
; Sequence 255935, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 255935  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-255935

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 9.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671  
||||| ||||| ||||| ||||| |||||  
Db 22 GCGGCGCGCGCGCGCGCGCGG 1

## RESULT 539

US-10-310-914A-261072  
; Sequence 261072, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 261072  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-261072

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 9.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671  
||||| ||||| ||||| ||||| |||||  
Db 1 GCGGCGCGCGCGCGCGCGCGG 22

## RESULT 540

US-10-310-914A-261088  
; Sequence 261088, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 261088  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-261088

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 9.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGG 671  
Db 2 GCGGCAGCAGCGCGCGCGG 23

## RESULT 541

US-10-310-914A-299141  
; Sequence 299141, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 299141  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-299141

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 9.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGG 671  
Db 1 GCGGCAGCAGCGCGCGCGG 22

## RESULT 542

US-10-310-914A-299143  
; Sequence 299143, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 299143  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-299143

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 9.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGG 671  
Db 2 GCGGCAGCAGCGCGCGCGG 23

## RESULT 543

US-10-310-914A-301507/c  
; Sequence 301507, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 301507  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-301507

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 9.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 647 GCAGCGCAGCAGCGCGCGG 668  
Db 22 GCGGCAGCAGCGCGCGG 1

## RESULT 544

US-10-310-914A-305956/c  
; Sequence 305956, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 305956  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-305956

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 9.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 672  
Db 23 CGGTGCAGCAGCGCGCGG 2

## RESULT 545

US-10-310-914A-346658  
; Sequence 346658, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3

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; SEQ ID NO 346658
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-346658

Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
    ||||| || ||||| ||||| |||||
Db 1 GCGGCAGCGCGCGCGCGCGG 22

RESULT 546
US-10-310-914A-346659
; Sequence 346659, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 346659
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-346659

Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
    ||||| || ||||| ||||| |||||
Db 1 GCGGCAGCGCGCGCGCGCGG 22

RESULT 547
US-10-310-914A-346663
; Sequence 346663, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 346663
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-346663

Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
    ||||| || ||||| ||||| |||||
Db 1 GCGGCAGCGCGCGCGCGCGG 22

RESULT 548
US-10-310-914A-346664
; Sequence 346664, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 346664
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-346664

Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
    ||||| || ||||| ||||| |||||
Db 2 GCGGCAGCGCGCGCGCGCGG 23

RESULT 549
US-10-310-914A-368093
; Sequence 368093, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 368093
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-368093

Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
    ||||| || ||||| ||||| |||||
Db 1 GCGGCAGCGCGCGCGCGCGG 22

RESULT 550
US-10-310-914A-416103
; Sequence 416103, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 416103
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Query Match	Best Local Similarity	Score	DB 1;	Length	DB 2;	Indels	Mismatches	Gaps
Matches	20;	Conservative	0;	0;	0;	0;	0;	0;
<p>US-10-310-914A-42412</p> <p>Sequence 42412, Application US/10310914A</p> <p>Publication No. US20060003322A1</p> <p>GENERAL INFORMATION:</p> <p>APPLICANT: Bentwich, Isaac</p> <p>APPLICANT: Shiler, Kvazat</p> <p>TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and</p> <p>TITLE OF INVENTION: uses thereof</p> <p>FILE REFERENCE: 06087.0200.CPUS01</p> <p>CURRENT APPLICATION NUMBER: US/10/310,914A</p> <p>CURRENT FILING DATE: 2002-12-06</p> <p>NUMBER OF SEQ ID NOS: 1388402</p> <p>SOFTWARE: PatentIn version 3.3</p> <p>SEQ ID NO 42412</p> <p>LENGTH: 23</p> <p>TYPE: RNA</p> <p>ORGANISM: Human</p> <p>US-10-310-914A-42412</p>								
Query Match	Best Local Similarity	Score	DB 1;	Length	DB 2;	Indels	Mismatches	Gaps
Matches	20;	Conservative	0;	0;	0;	0;	0;	0;
<p>US-10-310-914A-42413</p> <p>Sequence 42413, Application US/10310914A</p> <p>Publication No. US20060003322A1</p> <p>GENERAL INFORMATION:</p> <p>APPLICANT: Bentwich, Isaac</p> <p>APPLICANT: Shiler, Kvazat</p> <p>TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and</p> <p>TITLE OF INVENTION: uses thereof</p> <p>FILE REFERENCE: 06087.0200.CPUS01</p> <p>CURRENT APPLICATION NUMBER: US/10/310,914A</p> <p>CURRENT FILING DATE: 2002-12-06</p> <p>NUMBER OF SEQ ID NOS: 1388402</p> <p>SOFTWARE: PatentIn version 3.3</p> <p>SEQ ID NO 42413</p> <p>LENGTH: 23</p> <p>TYPE: RNA</p> <p>ORGANISM: Human</p> <p>US-10-310-914A-42413</p>								
Query Match	Best Local Similarity	Score	DB 1;	Length	DB 2;	Indels	Mismatches	Gaps
Matches	20;	Conservative	0;	0;	0;	0;	0;	0;
<p>US-10-310-914A-42414</p> <p>Sequence 42414, Application US/10310914A</p> <p>Publication No. US20060003322A1</p> <p>GENERAL INFORMATION:</p> <p>APPLICANT: Bentwich, Isaac</p> <p>APPLICANT: Shiler, Kvazat</p> <p>TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and</p> <p>TITLE OF INVENTION: uses thereof</p> <p>FILE REFERENCE: 06087.0200.CPUS01</p> <p>CURRENT APPLICATION NUMBER: US/10/310,914A</p> <p>CURRENT FILING DATE: 2002-12-06</p> <p>NUMBER OF SEQ ID NOS: 1388402</p> <p>SOFTWARE: PatentIn version 3.3</p> <p>SEQ ID NO 42414</p> <p>LENGTH: 23</p> <p>TYPE: RNA</p> <p>ORGANISM: Human</p> <p>US-10-310-914A-42414</p>								

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; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-42414

Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
    ||||| ||||| ||||| ||||| |||||
Db 1 GCGGCGCGCGCGCGCGCGCGG 22

RESULT 556
US-10-310-914A-42415
; Sequence 42415, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42415
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-42415

Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
    ||||| ||||| ||||| ||||| |||||
Db 1 GCGGCGCGCGCGCGCGCGCGG 22

RESULT 557
US-10-310-914A-42416
; Sequence 42416, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42416
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-42416

Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
    ||||| ||||| ||||| ||||| |||||
Db 1 GCGGCGCGCGCGCGCGCGCGG 22

RESULT 558
US-10-310-914A-42427
; Sequence 42427, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42427
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-42427

Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
    ||||| ||||| ||||| ||||| |||||
Db 2 GCGGCGCGCGCGCGCGCGCGG 23

RESULT 559
US-10-310-914A-42428
; Sequence 42428, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42428
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-42428

Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
    ||||| ||||| ||||| ||||| |||||
Db 2 GCGGCGCGCGCGCGCGCGCGG 23

RESULT 560
US-10-310-914A-42429
; Sequence 42429, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42429
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-42429

Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
    ||||| ||||| ||||| ||||| |||||
Db 1 GCGGCGCGCGCGCGCGCGCGG 22
```

; ORGANISM: Human  
US-10-310-914A-42432

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 9.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCGGCGGCGGCGGCGG 671  
||||| ||||| ||||| ||||| |||||  
Db 2 GCGGCGGCGGCGGCGGCGG 23

## RESULT 561

US-10-310-914A-42430  
; Sequence 42430, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 42430  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-42430

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 9.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCGGCGGCGGCGGCGG 671  
||||| ||||| ||||| ||||| |||||  
Db 2 GCGGCGGCGGCGGCGGCGG 23

## RESULT 562

US-10-310-914A-42431  
; Sequence 42431, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 42431  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-42431

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 9.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCGGCGGCGGCGGCGG 671  
||||| ||||| ||||| ||||| |||||  
Db 2 GCGGCGGCGGCGGCGGCGG 23

## RESULT 563

US-10-310-914A-42432  
; Sequence 42432, Application US/10310914A

; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 42432  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-42432

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 9.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCGGCGGCGGCGGCGG 671  
||||| ||||| ||||| ||||| |||||  
Db 2 GCGGCGGCGGCGGCGGCGG 23

## RESULT 564

US-10-310-914A-42433  
; Sequence 42433, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 42433  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-42433

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 9.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCGGCGGCGGCGGCGG 671  
||||| ||||| ||||| ||||| |||||  
Db 2 GCGGCGGCGGCGGCGGCGG 23

## RESULT 565

US-10-310-914A-430449  
; Sequence 430449, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 430449  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human

US-10-310-914A-430449

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 9.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671  
||||| ||||| ||||| ||||| |||||  
Db 1 GCGGCGGCGCGCGCGCGCGG 22

RESULT 566

US-10-310-914A-430461  
; Sequence 430461, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 430461

; LENGTH: 23

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-430461

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 9.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671  
||||| ||||| ||||| ||||| |||||  
Db 2 GCGGCGGCGCGCGCGCGCGG 23

RESULT 567

US-10-310-914A-432629/c  
; Sequence 432629, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 432629

; LENGTH: 23

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-432629

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 9.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671  
||||| ||||| ||||| ||||| |||||  
Db 22 GCGGCGGCGCGCGCGCGCGG 1

RESULT 568

US-10-310-914A-463734  
; Sequence 463734, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 463734

; LENGTH: 23

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-463734

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 9.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671  
||||| ||||| ||||| ||||| |||||  
Db 1 GCGGCGGCGCGCGCGCGCGG 22

RESULT 569

US-10-310-914A-463744  
; Sequence 463744, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 463744

; LENGTH: 23

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-463744

Query Match 0.7%; Score 18.8; DB 1; Length 23;  
Best Local Similarity 90.9%; Pred. No. 9.2e+02;  
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671  
||||| ||||| ||||| ||||| |||||  
Db 2 GCGGCGGCGCGCGCGCGCGG 23

RESULT 570

US-10-310-914A-463745  
; Sequence 463745, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 463745

; LENGTH: 23

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-463745



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Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
      ||||| ||||| ||||| ||||| |||||
Db 2 GCGGCGGCGCGCGCGCGCGCGG 23

RESULT 571
US-10-310-914A-495451/c
; Sequence 495451, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 495451
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-495451

Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 275 TCCTCTCTCTCCACCACCTCTCT 296
      ||||| ||||| ||||| ||||| |||||
Db 22 TCCCTCTCTCTCCACCTCTCTCT 1

RESULT 572
US-10-310-914A-51709/c
; Sequence 51709, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 51709
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-51709

Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
      ||||| ||||| ||||| ||||| |||||
Db 22 GCGGCGGCGCGCGCGCGCGCGG 1

RESULT 573
US-10-310-914A-536236
; Sequence 536236, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
```

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; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 536236
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-536236
```

```
Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
      ||||| ||||| ||||| ||||| |||||
Db 1 GCGGCGGCGCGCGCGCGCGCGG 22
```

```
RESULT 574
US-10-310-914A-536250
; Sequence 536250, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 536250
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-536250
```

```
Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
      ||||| ||||| ||||| ||||| |||||
Db 2 GCGGCGGCGCGCGCGCGCGCGG 23
```

```
RESULT 575
US-10-310-914A-545430
; Sequence 545430, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 545430
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-545430
```

```
Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
      ||||| ||||| ||||| ||||| |||||
Db 1 GCGGCGGCGCGCGCGCGCGG 22

RESULT 576
US-10-310-914A-545431
; Sequence 545431, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 545431
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-545431

Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
      ||||| ||||| ||||| ||||| |||||
Db 1 GCGGCGGCGCGCGCGCGCGG 22

RESULT 577
US-10-310-914A-545437
; Sequence 545437, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 545437
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-545437

Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
      ||||| ||||| ||||| ||||| |||||
Db 2 GCGGCGGCGCGCGCGCGCGG 23

RESULT 578
US-10-310-914A-545438
; Sequence 545438, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
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```
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 545438
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-545438

Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
      ||||| ||||| ||||| ||||| |||||
Db 2 GCGGCGGCGCGCGCGCGCGG 23

RESULT 579
US-10-310-914A-576634/C
; Sequence 576634, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 576634
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-576634

Query Match          0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
      ||||| ||||| ||||| ||||| |||||
Db 22 GCGGCGGCGCGCGCGCGCGG 1

RESULT 580
US-10-310-914A-629561
; Sequence 629561, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 629561
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-629561

Query Match          0.7%; Score 18.8; DB 1; Length 23;
```

```
Best Local Similarity 90.9%; Pred. No. 9.2e+02; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 2;

QY 650 GCGGCGGCGGCGGCGGCGG 671
Db 1 GCGGCGGCGGCGGCGGCGGCGG 22

RESULT 581
US-10-310-914A-64744
; Sequence 64744, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 64744
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-64744

Query Match 0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 86.4%; Pred. No. 9.2e+02;
Matches 19; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 216 GGTGGGGGGGCGGCGGCGGCGG 237
Db 2 GCGGGGGGCGGCGGCGGCGGCGG 23

RESULT 582
US-10-310-914A-718992/c
; Sequence 718992, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 718992
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-718992

Query Match 0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 658 AGCGGCGGCGGCGGCGGCGGTGTG 679
Db 23 AGCGGCGGCGGCGGCGGCGGCGG 2

RESULT 583
US-10-310-914A-757113
; Sequence 757113, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
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; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 757113
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-757113

Query Match 0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2366 GACAGACAGACAGAAAGCCAGA 2387
Db 1 GACAGACAGACAGACAGACAGAGA 22

RESULT 584
US-10-310-914A-757114
; Sequence 757114, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 757114
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-757114

Query Match 0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2366 GACAGACAGACAGAAAGCCAGA 2387
Db 1 GACAGACAGACAGACAGACAGAGA 22

RESULT 585
US-10-310-914A-78083
; Sequence 78083, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 78083
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-78083

Query Match 0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
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Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
      ||||| || ||||| |||||
Db 1 GCGGCGCGCGCGCGCGCGCGG 22

RESULT 586
US-10-310-914A-78084
; Sequence 78084, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 78084
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-78084

Query Match 0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
      ||||| || ||||| |||||
Db 1 GCGGCGCGCGCGCGCGCGCGG 22

RESULT 587
US-10-310-914A-78091
; Sequence 78091, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 78091
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-78091

Query Match 0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
      ||||| || ||||| |||||
Db 1 GCGGCGCGCGCGCGCGCGCGG 22

RESULT 588
US-10-310-914A-78092
; Sequence 78092, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
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; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 78092
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-78092

Query Match 0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
      ||||| || ||||| |||||
Db 2 GCGGCGCGCGCGCGCGCGCGG 23

RESULT 589
US-10-310-914A-795953/c
; Sequence 795953, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 795953
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-795953

Query Match 0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
      ||||| || ||||| |||||
Db 22 GCGGCGCGCAGAGCGCGCGCGG 1

RESULT 590
US-10-310-914A-807660
; Sequence 807660, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 807660
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-807660

Query Match 0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 671
      ||||| || ||||| |||||
Db 22 GCGGCGCGCAGAGCGCGCGCGG 1

RESULT 591
US-10-310-914A-807660
; Sequence 807660, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 807660
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-807660

Query Match 0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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```
QY 650 GCGGCGAGCGCGCGCGCGG 671
      ||||| || ||||| |||||
Db 2 GCGGCGCGCGCGCGCGCGG 23

RESULT 591
US-10-310-914A-838147
; Sequence 838147, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 838147
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-838147

Query Match 0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGCGG 674
      ||||| || ||||| |||||
Db 2 GCAGCAGCGCGCGCGCGG 23

RESULT 592
US-10-310-914A-838207
; Sequence 838207, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 838207
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-838207

Query Match 0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCGAGCGCGCGCGCGG 671
      ||||| || ||||| |||||
Db 1 GCGGCGCGCGCGCGCGCGG 22

RESULT 593
US-10-310-914A-838215
; Sequence 838215, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof

FILE REFERENCE: 06087.0200.CPUS01
CURRENT APPLICATION NUMBER: US/10/310,914A
CURRENT FILING DATE: 2002-12-06
NUMBER OF SEQ ID NOS: 1388402
SOFTWARE: PatentIn version 3.3
SEQ ID NO 838215
LENGTH: 23
TYPE: RNA
ORGANISM: Human
US-10-310-914A-838215

Query Match 0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCGAGCGCGCGCGCGG 671
      ||||| || ||||| |||||
Db 2 GCGGCGCGCGCGCGCGCGG 1

RESULT 595
US-10-310-914A-88240
; Sequence 88240, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 88240
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-88240

Query Match 0.7%; Score 18.8; DB 1; Length 23;
Best Local Similarity 90.9%; Pred. No. 9.2e+02;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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QY 650 GCGGCGGCGCGCGCGCGG 671  
DB 2 GCGGCGGCGCGCGCGCGG 23

## RESULT 596

US-10-310-914A-900526  
; Sequence 900526, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 900526

; LENGTH: 23

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-900526

Query Match 0.7%; Score 18.8; DB 1; Length 23;

Best Local Similarity 90.9%; Pred. No. 9.2e+02;

Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCAGCGCGG 665

DB 2 GCAGCAGCGCGCAGCGCGG 23

## RESULT 597

US-10-310-914A-900539

; Sequence 900539, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 900539

; LENGTH: 23

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-900539

Query Match 0.7%; Score 18.8; DB 1; Length 23;

Best Local Similarity 90.9%; Pred. No. 9.2e+02;

Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 645 CAGCAGCGCGCAGCGCGG 666

DB 1 CAGCAGCGCGCAGCGCGG 22

## RESULT 598

US-10-310-914A-969322/c

; Sequence 969322, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 969322  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-969322

Query Match 0.7%; Score 18.8; DB 1; Length 23;

Best Local Similarity 90.9%; Pred. No. 9.2e+02;

Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGGGG 674

DB 23 GCGGCGGCGCGCGCGGGG 2

## RESULT 599

US-10-310-914A-983802/c

; Sequence 983802, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 983802

; LENGTH: 23

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-983802

Query Match 0.7%; Score 18.8; DB 1; Length 23;

Best Local Similarity 90.9%; Pred. No. 9.2e+02;

Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCGGCGCGCGCGGG 671

DB 22 GCGGCGGCGCGCGCGGG 1

## RESULT 600

US-10-310-914A-100328/c

; Sequence 100328, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 100328

; LENGTH: 20

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-100328

Query Match 0.6%; Score 18.4; DB 1; Length 20;

Best Local Similarity 95.0%; Pred. No. 7.2e+02;

Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 270 CTGCCTCCTCCTCCTCCACC 289

```
Db      20  CTGCTCTCTCTCTCTCGGC 1
|||||
Query Match      0.6%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 7.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

RESULT 601
US-10-310-914A-1007325
; Sequence 1007325, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1007325
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1007325

Query Match      0.6%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 7.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      651  CGGCAGCAGCGCGCGCGG 670
Db      1  CGGCAGCAGCGCGCGCGGAG 20
|||||

RESULT 602
US-10-310-914A-1016243/c
; Sequence 1016243, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1016243
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1016243

Query Match      0.6%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 7.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      652  GGCAGCAGCGCGCGCGCGG 671
Db      20  GGCAGCAGCGCGCGCGCGG 1
|||||

RESULT 603
US-10-310-914A-1016244/c
; Sequence 1016244, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
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; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1016244
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1016244

Query Match      0.6%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 7.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      652  GGCAGCAGCGCGCGCGCGG 671
Db      20  GGCAGCAGCGCGCGCGCGG 1
|||||

RESULT 604
US-10-310-914A-1162824
; Sequence 1162824, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1162824
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1162824

Query Match      0.6%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 7.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2365  AGACAGACAGACAGAGAGCC 2384
Db      1  AGACAGACAGACAGACAGCC 20
|||||

RESULT 605
US-10-310-914A-1326885/c
; Sequence 1326885, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1326885
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1326885

Query Match      0.6%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 7.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      650  GCGCAGCAGCGCGCGCGGC 669
Db      1  GCGCAGCAGCGCGCGCGGC 1
|||||
```

```
Db      20 GTGCAGCAGCGCGCGGC 1

RESULT 606
US-10-310-914A-202533/c
; Sequence 202533, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 202533
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-202533

Query Match      0.6%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 7.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      647 GCAGCGGCAGCAGCGCGGC 666
        ||||| ||||| ||||| |||||
Db      20 GCAGCAGCAGCAGCGCGGC 1

RESULT 607
US-10-310-914A-221988/c
; Sequence 221988, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 221988
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-221988

Query Match      0.6%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 7.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      647 GCAGCGGCAGCAGCGCGGC 666
        ||||| ||||| ||||| |||||
Db      20 GCAGCAGCAGCAGCGCGGC 1

RESULT 608
US-10-310-914A-222269/c
; Sequence 222269, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 222269
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-222269

Query Match      0.6%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 7.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      650 GCGGAGCAGCGCGCGCGGC 669
        ||||| ||||| ||||| |||||
Db      20 GCGGAGCAGCGCGCGCGGC 1

RESULT 609
US-10-310-914A-229044/c
; Sequence 229044, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 229044
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-229044

Query Match      0.6%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 7.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      652 GGCAGCAGCGCGCGCGCGG 671
        ||||| ||||| ||||| |||||
Db      20 GGCAGCAGCGCGCGCGCGG 1

RESULT 610
US-10-310-914A-231748/c
; Sequence 231748, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 231748
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-231748

Query Match      0.6%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 7.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      285 CCACCACTCTCTCTCTCTTC 304
        ||||| ||||| ||||| |||||
Db      20 CCACCACTCTCTCTCTCTTC 1

RESULT 611
US-10-310-914A-231748/c
; Sequence 231748, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 231748
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-231748

Query Match      0.6%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 7.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      285 CCACCACTCTCTCTCTCTTC 304
        ||||| ||||| ||||| |||||
Db      20 CCACCACTCTCTCTCTCTTC 1
```



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; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 426632
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-426632

Query Match          0.6%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 7.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGCGCGGC 675
Db 1 GCAGCGCGCGCGCGCGCGGC 20

RESULT 614
US-10-310-914A-545962/c
; Sequence 545962, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 545962
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-545962

Query Match          0.6%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 7.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 652 GCAGCAGCGCGCGCGCGGC 671
Db 20 GGCTGCAGCGCGCGCGGC 1

RESULT 615
US-10-310-914A-548892/c
; Sequence 548892, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 548892
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-548892

Query Match          0.6%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 7.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 273 CCTCCTCCTCCTCCACCACC 292
Db 20 CCCCTCCTCCTCCACCACC 1

; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 426632
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-426632

Query Match          0.6%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 7.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 650 GCGGCGCAGCGCGCGCGGC 669
Db 20 GCGGCGCAGCGCGCGCGGC 1

RESULT 613
US-10-310-914A-426632
; Sequence 426632, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
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RESULT 616
US-10-310-914A-719052/c
; Sequence 719052, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 719052
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-719052
Query Match          0.6%; Score 18.4; DB 1; Length 20;
Best Local Similarity 75.0%; Pred. No. 7.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGCGCGG 675
Db 20 GCAGCGCGCGCGCGCGCGG 1

RESULT 617
US-10-310-914A-73030
; Sequence 73030, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 73030
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-73030
Query Match          0.6%; Score 18.4; DB 1; Length 20;
Best Local Similarity 95.0%; Pred. No. 7.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 652 GCAGCGCGCGCGCGCGCGG 671
Db 1 GCAGCGCGCGCGCGCGCGG 20

RESULT 618
US-10-310-914A-743427
; Sequence 743427, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 743427
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-743427
Query Match          0.6%; Score 18.4; DB 1; Length 20;
Best Local Similarity 75.0%; Pred. No. 7.2e+02;
Matches 15; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 273 CCTCCTCTCTCTCCACCACC 292
Db 1 CCUCUCCUCCUCCACCUC 20

RESULT 619
US-10-310-914A-106726
; Sequence 106726, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 106726
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-106726
Query Match          0.6%; Score 18.4; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 8.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 650 GCGGCGAGCAGCGCGCGCGC 669
Db 1 GCGGCGAGCAGCGCGCGCGC 20

RESULT 620
US-10-310-914A-1295970/c
; Sequence 1295970, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1295970
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1295970
Query Match          0.6%; Score 18.4; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 8.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGCGCGG 671
Db 21 GGCAGCAGCGCGCGCGCGG 2
```

```
RESULT 621
US-10-310-914A-186967/c
; Sequence 186967, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 186967
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-186967

Query Match          0.6%; Score 18.4; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 8.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 206 GCGGGGTGGGTGGGGGG 225
DB 21 GCGGGGTGGGTGGGGGG 2

RESULT 622
US-10-310-914A-189786/c
; Sequence 189786, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 189786
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-189786

Query Match          0.6%; Score 18.4; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 8.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGGAGCAGCGC 663
DB 21 GCAGCAGCGCGGAGCAGCAGC 2

RESULT 623
US-10-310-914A-193957
; Sequence 193957, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 193957
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; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-193957

Query Match          0.6%; Score 18.4; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 8.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 652 GCAGCAGCGCGGCGGGGG 671
DB 1 GCAGCAGCGCGGCGGGGG 20

RESULT 624
US-10-310-914A-202532/c
; Sequence 202532, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 202532
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-202532

Query Match          0.6%; Score 18.4; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 8.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGGCGGGGG 672
DB 21 GCAGCAGCGCGGCGGGGG 2

RESULT 625
US-10-310-914A-238253/c
; Sequence 238253, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 238253
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-238253

Query Match          0.6%; Score 18.4; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 8.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCAGCGCGGCGGGGG 675
DB 21 GCAGCAGCGCGGCGGGGG 2

RESULT 626
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```
US-10-310-914A-540550/c
; Sequence 540550, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 540550
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-540550
Query Match      0.6%; Score 18.4; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 8.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      644 GCAGCAGCGGCAGCAGCGGC 663
Db      21 GCAGCAGCGGCAGCAGCGGC 2

RESULT 627
US-10-310-914A-548452
; Sequence 548452, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 548452
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-548452
Query Match      0.6%; Score 18.4; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 8.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      644 GCAGCAGCGGCAGCAGCGGC 663
Db      21 GCAGCAGCGGCAGCAGCGGC 2

RESULT 627
US-10-310-914A-548452
; Sequence 548452, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 548452
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-548452
Query Match      0.6%; Score 18.4; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 8.2e+02;
Matches 17; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      208 GGGGGTGGGTGGGGGGGAG 227
Db      2 GGGGGUGGGUGUGGGGAG 21

RESULT 628
US-10-310-914A-73013
; Sequence 73013, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 73013
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-73013
Query Match      0.6%; Score 18.4; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 8.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      650 GCGGCAGCAGCGCGCGCGGC 669
Db      1 GCGGCAGCAGCGCGCGCGGC 20

RESULT 631
US-10-310-914A-1013266
; Sequence 964813, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 964813
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-964813
Query Match      0.6%; Score 18.4; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 8.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      650 GCGGCAGCAGCGCGCGCGGC 669
Db      1 GCGGCAGCAGCGCGCGCGGC 20

RESULT 631
US-10-310-914A-1013266
; Sequence 964813, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 964813
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-964813
Query Match      0.6%; Score 18.4; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 8.2e+02;
Matches 18; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      215 GGTGGGGGGGAGGAGGGG 234
Db      1 GGGUGGAGGGGAGGAGGGG 20

RESULT 630
US-10-310-914A-964813
; Sequence 964813, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 964813
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-964813
Query Match      0.6%; Score 18.4; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 8.2e+02;
Matches 18; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      215 GGTGGGGGGGAGGAGGGG 234
Db      1 GGGUGGAGGGGAGGAGGGG 20
```

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; Sequence 1013266, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1013266
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1013266

Query Match          0.6%; Score 18.4; DB 1; Length 22;
Best Local Similarity 95.0%; Pred. No. 9.2e+02;
Matches 17; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGGTGGGGGGG 225
DB 2 GGGGUGGUGGGUGGGGGGG 21

RESULT 632
US-10-310-914A-1170931
; Sequence 1170931, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1170931
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1170931

Query Match          0.6%; Score 18.4; DB 1; Length 22;
Best Local Similarity 95.0%; Pred. No. 9.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 654 CAGCAGCGCGCGCGGGGGG 673
DB 3 CAGCAGCGCGCGCGGGGGG 22

RESULT 633
US-10-310-914A-1295971/c
; Sequence 1295971, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1295971
; LENGTH: 22
; TYPE: RNA
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```
; ORGANISM: Human
US-10-310-914A-1295971

Query Match          0.6%; Score 18.4; DB 1; Length 22;
Best Local Similarity 95.0%; Pred. No. 9.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGGGCGG 671
DB 21 GGCAGCGGGCGGGCGGGCGG 2

RESULT 634
US-10-310-914A-148826/c
; Sequence 148826, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 148826
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-148826

Query Match          0.6%; Score 18.4; DB 1; Length 22;
Best Local Similarity 95.0%; Pred. No. 9.2e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGGGCGGC 669
DB 20 GCGGCAGCAGCGCGGGCGGTGC 1

RESULT 635
US-10-310-914A-188902
; Sequence 188902, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 188902
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-188902

Query Match          0.6%; Score 18.4; DB 1; Length 22;
Best Local Similarity 80.0%; Pred. No. 9.2e+02;
Matches 16; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 279 CCTCTCCACCACCTCTCTCC 298
DB 3 CCUCCUCCACCACCGCCUCC 22

RESULT 636
US-10-310-914A-202520/c
; Sequence 202520, Application US/10310914A
```



## ; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 929352  
; LENGTH: 22  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-929352

Query Match 0.6%; Score 18.4; DB 1; Length 22;  
Best Local Similarity 95.0%; Pred. No. 9.2e+02;  
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 207 GGGGGTGGGGTGGGGGGA 226  
|||||  
Db 20 GGGGGTGGGGTGGGTGGA 1

## RESULT 642

US-10-310-914A-1040108  
; Sequence 1040108, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1040108  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1040108

Query Match 0.6%; Score 18.4; DB 1; Length 23;  
Best Local Similarity 90.0%; Pred. No. 1e+03;  
Matches 18; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 214 GGGGTGGGGGAGGAGGAGG 233  
|||||  
Db 4 GGGGAGGAGGAGGAGGAGG 23

## RESULT 643

US-10-310-914A-118043/c  
; Sequence 118043, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 118043  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-118043

Query Match 0.6%; Score 18.4; DB 1; Length 23;  
Best Local Similarity 95.0%; Pred. No. 1e+03;  
Matches 17; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 153 ATCCCAACCCCTGTGCAC 172  
|||||  
Db 4 AAACCAACCCGUGGCAC 23

## RESULT 646

US-10-310-914A-186942/c  
; Sequence 186942, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

Query Match 0.6%; Score 18.4; DB 1; Length 23;  
Best Local Similarity 95.0%; Pred. No. 1e+03;  
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 206 GGGGGTGGGTGGGGGGG 225  
|||||  
Db 20 GGGAGGTGGGTGGGGGGG 1

## RESULT 644

US-10-310-914A-1295957/c  
; Sequence 1295957, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1295957  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1295957

Query Match 0.6%; Score 18.4; DB 1; Length 23;  
Best Local Similarity 95.0%; Pred. No. 1e+03;  
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGGGG 671  
|||||  
Db 20 GGCAGCAGCGCGCGGGG 1

## RESULT 645

US-10-310-914A-1387235  
; Sequence 1387235, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1387235  
; LENGTH: 23  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1387235

Query Match 0.6%; Score 18.4; DB 1; Length 23;  
Best Local Similarity 85.0%; Pred. No. 1e+03;  
Matches 17; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 153 ATCCCAACCCCTGTGCAC 172  
|||||  
Db 4 AAACCAACCCGUGGCAC 23

```
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 186942
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-186942

Query Match      0.6%; Score 18.4; DB 1; Length 23;
Best Local Similarity 95.0%; Pred. No. 1e+03;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGGGG 225
Db 22 GCGGGGGTGGGTGGGGGGG 3

RESULT 647
US-10-310-914A-461593
; Sequence 461593, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 461593
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-461593

Query Match      0.6%; Score 18.4; DB 1; Length 23;
Best Local Similarity 95.0%; Pred. No. 1e+03;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGCGGC 663
Db 3 GCAGCAGCGGCAGCAGCAGC 22

RESULT 648
US-10-310-914A-585035
; Sequence 585035, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 585035
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-585035
```

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Query Match      0.6%; Score 18.4; DB 1; Length 23;
Best Local Similarity 70.0%; Pred. No. 1e+03;
Matches 14; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 277 CTCCTCCTCCACCACTCCT 296
Db 4 CUCCUCCUCCACCUCCUCU 23

RESULT 649
US-10-310-914A-719007/c
; Sequence 719007, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 719007
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-719007

Query Match      0.6%; Score 18.4; DB 1; Length 23;
Best Local Similarity 95.0%; Pred. No. 1e+03;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 655 AGCAGCGCGCGCGCGGG 674
Db 20 AGCAGCGCGCGCGCGGG 1

RESULT 650
US-10-310-914A-118048/c
; Sequence 118048, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 118048
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-118048

Query Match      0.6%; Score 18; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 6.1e+02;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 210 GGGTGGGTGGGGGGGAG 227
Db 18 GGGTGGGTGGGGGGGAG 1

RESULT 651
US-10-310-914A-221994/c
; Sequence 221994, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
```



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; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 221994
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-221994

Query Match          0.6%; Score 18; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 6.1e+02;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 345 GAAGGCTGTTGAGGCG 362
DB 18 GAAGGCTGTTGAGGCG 1

RESULT 652
US-10-310-914A-353985/c
; Sequence 353985, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 353985
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-353985

Query Match          0.6%; Score 18; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 6.1e+02;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGCG 670
DB 18 GCAGCAGCGCGCGCGCG 1

RESULT 653
US-10-310-914A-706770
; Sequence 706770, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 706770
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-706770

Query Match          0.6%; Score 18; DB 1; Length 18;
```

```
Best Local Similarity 77.8%; Pred. No. 6.1e+02;
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 278 TCCTCTCTCCACCACCTCC 295
DB 1 UCCUCCUCCACCACCUCC 18

RESULT 654
US-10-310-914A-79741/c
; Sequence 79741, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 79741
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-79741

Query Match          0.6%; Score 18; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 6.1e+02;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGCGG 673
DB 18 GCAGCGCGCGCGCGGG 1

RESULT 655
US-10-310-914A-79742/c
; Sequence 79742, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 79742
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-79742

Query Match          0.6%; Score 18; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 6.1e+02;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGGG 673
DB 18 GCAGCGCGCGCGCGGG 1

RESULT 656
US-10-310-914A-79743/c
; Sequence 79743, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
```

```
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 79743
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-79743

Query Match          0.6%; Score 18; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 7e+02;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      656 GCAGCGCGCGCGCGGGG 673
Db      18 GCAGCGCGCGCGCGGGG 1

RESULT 657
US-10-310-914A-79744/c
; Sequence 79744, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 79744
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-79744

Query Match          0.6%; Score 18; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 7e+02;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      656 GCAGCGCGCGCGCGGGG 673
Db      18 GCAGCGCGCGCGCGGGG 1

RESULT 658
US-10-310-914A-88913/c
; Sequence 88913, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 88913
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-88913

Query Match          0.6%; Score 18; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 7e+02;
```

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Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      269 CCTGCTCTCTCTCTCTCC 286
Db      18 CCTGCTCTCTCTCTCTCC 1

RESULT 659
US-11-083-784-266282
; Sequence 266282, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266282
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266282

Query Match          0.6%; Score 18; DB 1; Length 19;
Best Local Similarity 55.6%; Pred. No. 7e+02;
Matches 10; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

QY      1087 GCCTTTGCTCTCTCTCTC 1104
Db      2 GCCUUGCCUCUCUCUCUC 19

RESULT 660
US-11-083-784-266347
; Sequence 266347, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266347
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266347
```

```
Query Match      0.6%; Score 18; DB 1; Length 19;
Best Local Similarity 55.6%; Pred. No. 7e+02;
Matches 10; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

QY 1087 GCCTTTGGCTCTCTCTTC 1104
    |||:|||||:|:|:|:|:|
Db 2 GCCUUGCCUCUCUCUUC 19

RESULT 661
US-11-083-784-266354
; Sequence 266354, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR FILING DATE: US/10/714,333
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266354
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266354

Query Match      0.6%; Score 18; DB 1; Length 19;
Best Local Similarity 83.3%; Pred. No. 7e+02;
Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1476 CAAGCTCACGCCCACTT 1493
    |||:|||||:|:|:|:|:|
Db 1 CAAGCUCACACGCCCACTU 18

RESULT 662
US-11-083-784-377969
; Sequence 377969, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR FILING DATE: US/10/714,333
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 377969
; LENGTH: 19
; TYPE: RNA

Query Match      0.6%; Score 18; DB 1; Length 19;
Best Local Similarity 55.6%; Pred. No. 7e+02;
Matches 10; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

QY 1087 GCCTTTGGCTCTCTCTTC 1104
    |||:|||||:|:|:|:|:|
Db 2 GCCUUGCCUCUCUCUUC 19

RESULT 664
US-11-101-244-266347
; Sequence 266347, Application US/1101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266347
; LENGTH: 19
; TYPE: RNA

Query Match      0.6%; Score 18; DB 1; Length 19;
Best Local Similarity 55.6%; Pred. No. 7e+02;
Matches 10; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

QY 1087 GCCTTTGGCTCTCTCTTC 1104
    |||:|||||:|:~|:|:|
Db 2 GCCUUGCCUCUCUCUUC 19

RESULT 665
US-11-101-244-266282
; Sequence 266282, Application US/1101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266282
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266282
```

```
; ORGANISM: Homo sapiens
US-11-101-244-266347

Query Match      0.6%; Score 18; DB 1; Length 19;
Best Local Similarity 55.3%; Pred. No. 7e+02;
Matches 10; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

QY 1087 GCCTTTGGCTCTCTCTCTTC 1104
    |||::|||::|||::|||::|||
Db 2 GCCUUGCCUCUCUCUCUCUC 19

RESULT 665
US-11-101-244-266354
; Sequence 266354, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266354
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266354

Query Match      0.6%; Score 18; DB 1; Length 19;
Best Local Similarity 83.3%; Pred. No. 7e+02;
Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1476 CAAGCTCACAGCCACTT 1493
    |||::|||::|||::|||::|||
Db 1 CAAGCUCACAGCCACCU 18

RESULT 666
US-11-101-244-377969
; Sequence 377969, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 377969
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens

US-11-101-244-377969

Query Match      0.6%; Score 18; DB 1; Length 19;
Best Local Similarity 83.3%; Pred. No. 7e+02;
Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 504 GGAGAAGATCATCATCAA 521
    |||::|||::|||::|||::|||
Db 2 GGAGAAGAUCAUCAAA 19

RESULT 667
US-10-310-914A-231732/c
; Sequence 231732, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 231732
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-231732

Query Match      0.6%; Score 18; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 8.1e+02;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 285 CCACCACCTCTCTCTCTCT 302
    |||::|||::|||::|||::|||
Db 19 CCACCACCTCTCTCTCTCT 2

RESULT 668
US-10-310-914A-625761/c
; Sequence 625761, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 625761
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-625761

Query Match      0.6%; Score 18; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 9.2e+02;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
    |||::|||::|||::|||::|||
Db 18 CGGCAGCAGCGCGCGCGG 1

RESULT 669
US-10-310-914A-253712
; Sequence 253712, Application US/10310914A
; Publication No. US20060003322A1
```

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; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 253712
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-253712

Query Match
Best Local Similarity 100.0%; Score 18; DB 1; Length 22;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 654 CAGCAGCGGGCGGGCGG 671
Db 1 CAGCAGCGGGCGGGCGG 18

RESULT 670
US-10-310-914A-1012093/c
; Sequence 1012093, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1012093
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1012093

Query Match
Best Local Similarity 0.6%; Score 17.8; DB 1; Length 21;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCAGCAGCGGGCGGGCGGG 673
Db 21 GCAGCAGCGGGCGGGCGGG 1

RESULT 671
US-10-310-914A-1224011
; Sequence 1224011, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1224011
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1224011
```

```
Query Match
Best Local Similarity 0.6%; Score 17.8; DB 1; Length 21;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 643 GCAGCAGCGGGCGGGCGGC 663
Db 1 GGCAGCAGCGGGCGGGCGGC 21

RESULT 672
US-10-310-914A-1263814/c
; Sequence 1263814, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1263814
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1263814

Query Match
Best Local Similarity 0.6%; Score 17.8; DB 1; Length 21;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 275 TCCTCTCTCTCCACCACCTCC 295
Db 21 TCCTCTCTCTCTCTCTCTCC 1

RESULT 673
US-10-310-914A-1263815/c
; Sequence 1263815, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1263815
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1263815

Query Match
Best Local Similarity 0.6%; Score 17.8; DB 1; Length 21;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 275 TCCTCTCTCTCCACCACCTCC 295
Db 21 TCCTCTCTCTCTCTCTCTCC 1

RESULT 674
US-10-310-914A-1263816/c
; Sequence 1263816, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
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; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1263816
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1263816

Query Match      0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 9.8e+02;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 275 TCCTCCTCCTCCACCACTCC 295
Db 21 TCCTCCTCCTCCTCCTCCCTCC 1

RESULT 675
US-10-310-914A-1286245
; Sequence 1286245, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1286245
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1286245

Query Match      0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 66.7%; Pred. No. 9.8e+02;
Matches 14; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 273 CCTCCTCCTCCTCCACCACT 293
Db 1 CCUCCUCCUCCUCCUCCUCCU 21

RESULT 676
US-10-310-914A-1358205
; Sequence 1358205, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1358205
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1358205
```

```
Query Match      0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 9.8e+02;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 645 CAGCAGCGGCAGCAGCGCGG 665
Db 1 CAGCAGCGGCAGCAGCGCGG 21

RESULT 677
US-10-310-914A-138529/c
; Sequence 138529, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 138529
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-138529

Query Match      0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 9.8e+02;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 645 CAGCAGCGGCAGCAGCGCGG 665
Db 21 CAGCAGCGGCAGCAGCGCGG 1

RESULT 678
US-10-310-914A-172527
; Sequence 172527, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 172527
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-172527

Query Match      0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 9.8e+02;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 655 AGCAGCGCGCGCGCGCGGCG 675
Db 1 AGCAGCGCGCGCGCGCGGCGC 21

RESULT 679
US-10-310-914A-202568/c
; Sequence 202568, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
```

; APPLICANT: Shiler, Kuzat  
 ; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
 ; FILE REFERENCE: 06087.0200.CPUS01  
 ; CURRENT APPLICATION NUMBER: US/10/310,914A  
 ; CURRENT FILING DATE: 2002-12-06  
 ; NUMBER OF SEQ ID NOS: 1388402  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 202568  
 ; LENGTH: 21  
 ; TYPE: RNA  
 ; ORGANISM: Human  
 US-10-310-914A-202568

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
 Best Local Similarity 90.5%; Pred. No. 9.8e+02;  
 Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2694 TCTGACCATGTTTTGGAGTG 2714  
 Db 21 TCTGACCATGTTTTGGGGTG 1

RESULT 680  
 US-10-310-914A-211265/c  
 ; Sequence 211265, Application US/10310914A  
 ; Publication No. US20060003322A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Bentwich, Isaac  
 ; APPLICANT: Shiler, Kuzat  
 ; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
 ; FILE REFERENCE: 06087.0200.CPUS01  
 ; CURRENT APPLICATION NUMBER: US/10/310,914A  
 ; CURRENT FILING DATE: 2002-12-06  
 ; NUMBER OF SEQ ID NOS: 1388402  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 211265  
 ; LENGTH: 21  
 ; TYPE: RNA  
 ; ORGANISM: Human  
 US-10-310-914A-211265

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
 Best Local Similarity 90.5%; Pred. No. 9.8e+02;  
 Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 208 GGGGGTGGGTGGGGGGAGG 228  
 Db 21 GGGGGTGGGTGGGGGGAGTGG 1

RESULT 681  
 US-10-310-914A-221969  
 ; Sequence 221969, Application US/10310914A  
 ; Publication No. US20060003322A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Bentwich, Isaac  
 ; APPLICANT: Shiler, Kuzat  
 ; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
 ; FILE REFERENCE: 06087.0200.CPUS01  
 ; CURRENT APPLICATION NUMBER: US/10/310,914A  
 ; CURRENT FILING DATE: 2002-12-06  
 ; NUMBER OF SEQ ID NOS: 1388402  
 ; SOFTWARE: PatentIn version 3.3  
 ; SEQ ID NO 221969  
 ; LENGTH: 21  
 ; TYPE: RNA  
 ; ORGANISM: Human  
 US-10-310-914A-221969

Query Match 0.6%; Score 17.8; DB 1; Length 21;

```
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 257830
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-257830

Query Match          0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 9.8e+02;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGCGGG 673
Db 21 GCGGCGCGCGCGCGCGGG 1

RESULT 685
US-10-310-914A-290078
; Sequence 290078, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 290078
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-290078

Query Match          0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 81.0%; Pred. No. 9.8e+02;
Matches 17; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 208 GGGGGTGGGTGGCGGGGAGG 228
Db 1 GGGGGUGAGGUGGGUGGAGG 21

RESULT 686
US-10-310-914A-341338/c
; Sequence 341338, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 341338
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-341338

Query Match          0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 9.8e+02;
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```
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGAGCAGCGCGCGCGGG 671
Db 21 CGGCGCGCGCGCGCGGG 1

RESULT 687
US-10-310-914A-344555/c
; Sequence 344555, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 344555
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-344555

Query Match          0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 9.8e+02;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 282 CCTCCACCACTCTCTCTCT 302
Db 21 CCACCACCAACTCTCTCTCT 1

RESULT 688
US-10-310-914A-357042
; Sequence 357042, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 357042
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-357042

Query Match          0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 61.9%; Pred. No. 9.8e+02;
Matches 13; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 291 CCTCTCTCTCTCTCTCTC 311
Db 1 CCUCCUCCUCCUCCUCCGCC 21

RESULT 689
US-10-310-914A-381485/c
; Sequence 381485, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
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; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 381485  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-381485

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 9.8e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCAGCAGCGCGG 664  
DB 21 GCAGCAGCGCGCAGCAGCGGAG 1

## RESULT 690

US-10-310-914A-416393/c  
; Sequence 416393, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 416393

; LENGTH: 21

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-416393

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 9.8e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGCGCAGCGCGCGCGCGCGG 671  
DB 21 CGCGCAGCGCGCGCGCAGCGG 1

## RESULT 691

US-10-310-914A-416394/c  
; Sequence 416394, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 416394

; LENGTH: 21

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-416394

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 9.8e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGCGCAGCGCGCGCGCGCGG 671  
DB 21 CGCGCAGCGCGCGCGCAGCGG 1

## RESULT 692

US-10-310-914A-432636/c  
; Sequence 432636, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 432636

; LENGTH: 21

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-432636

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 9.8e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 648 CAGCGCAGCGCGCGCGCGG 668  
DB 21 CGCGCGCGCGCAGCGCGCGG 1

## RESULT 693

US-10-310-914A-433753  
; Sequence 433753, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 433753

; LENGTH: 21

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-433753

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 9.8e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 645 CAGCAGCGCGCAGCAGCGCGG 665  
DB 1 CAGCUGGGCGCAGCAGCGCGG 21

## RESULT 694

US-10-310-914A-44941/c  
; Sequence 44941, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 44941  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-44941

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 9.8e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 985 GCCTCTGGCCCTGCTCGG 1005  
DB 21 GCCTCTGGCCCTGCTCGG 1

## RESULT 695

US-10-310-914A-495447/c  
; Sequence 495447, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 495447  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-495447

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 9.8e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 290 ACCTCTCTCTCTCTCTCGTCT 310  
DB 21 ACCTCTCTCTCTCTCTCTCTCT 1

## RESULT 696

US-10-310-914A-495470/c  
; Sequence 495470, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 495470  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-495470

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 9.8e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 272 GCCTCTCTCTCTCTCCACCACC 292  
DB 21 GCCGCTCTCTCTCTCCACTCC 1

## RESULT 697

US-10-310-914A-505774/c  
; Sequence 505774, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 505774  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-505774

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 9.8e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGCGGG 672  
DB 21 GGCAGCAGCGCGCGCAGCTGG 1

## RESULT 698

US-10-310-914A-505775/c  
; Sequence 505775, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 505775  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-505775

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 9.8e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGCGGG 672  
DB 21 GGCAGCAGCGCGCGCAGCTGG 1

## RESULT 699

US-10-310-914A-507177  
; Sequence 507177, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 507177  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-507177

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 9.8e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 647 GCAGCGGCGAGCGCGCGC 667  
DB 1 GCGGCGGCGGCGCGCGC 21

## RESULT 700

US-10-310-914A-526205/c  
; Sequence 526205, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 526205  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-526205

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 9.8e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 275 TCCTCTCTCTCCACCACTCC 295  
DB 21 TCCTCTCTCTCTCTCTCTCC 1

## RESULT 701

US-10-310-914A-540541/c  
; Sequence 540541, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 540541  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-540541

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 9.8e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 646 ACAGCGGCGAGCGCGCGC 666

DB 21 ACAGCGGCGAGCGCGC 1

## RESULT 702

US-10-310-914A-556852/c  
; Sequence 556852, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 556852  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-556852

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 9.8e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 303 TCCTCTCTCTCTCTCTCTCC 323  
DB 21 TCCTCTCTCTCTCTCTCTCC 1

## RESULT 703

US-10-310-914A-585033  
; Sequence 585033, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 585033  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-585033

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 66.7%; Pred. No. 9.8e+02;  
Matches 14; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 279 CCTCTCCACCACTCTCTCC 299  
DB 1 CCUCCUCCACCUCCUCCUGU 21

## RESULT 704

US-10-310-914A-587505/c  
; Sequence 587505, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 587505  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-587505

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 9.8e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 647 GCAGCGCGCAGCGCGCGCG 667  
| | | | | | | | | | | | | | | | | | | | |  
DB 21 GAAGCGCGCAGCGCGCGCG 1

RESULT 705  
US-10-310-914A-629654/c  
; Sequence 629654, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 629654  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-629654

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 9.8e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGCGCAGCGCGCGCGCGCG 671  
| | | | | | | | | | | | | | | | | | | | |  
DB 21 CGCGCAGCGCGCGCGCGCG 1

RESULT 706  
US-10-310-914A-677290/c  
; Sequence 677290, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 677290  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-677290

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 9.8e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 177 AAAAGCAACTCTTCCTGCTC 197  
| | | | | | | | | | | | | | | | | | | | |

DB 21 AAATGCCACCTCTTCCTGCTC 1

RESULT 707  
US-10-310-914A-691352/c  
; Sequence 691352, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 691352  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-691352

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 9.8e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGCGGG 673  
| | | | | | | | | | | | | | | | | | | | |  
DB 21 GCGGCGCGCGCGCGCGGG 1

RESULT 708  
US-10-310-914A-704965  
; Sequence 704965, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 704965  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-704965

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 66.7%; Pred. No. 9.8e+02;  
Matches 14; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 275 TCCTCTCTCTCCACACCTCC 295  
: | | | | | | | | | | | | | | | | | | | | |  
DB 1 UCUUCCUCCUCCUCCACCUCC 21

RESULT 709  
US-10-310-914A-712339  
; Sequence 712339, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 712339  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-712339

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 9.8e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGCGG 671  
||||| ||||||| ||||||| |||||||  
DB 1 CGCGCGCAGCGCGCGCGCGUG 21

## RESULT 710

US-10-310-914A-715435/c  
; Sequence 715435, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 715435  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-715435

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 9.8e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGCGG 671  
||||| ||||||| ||||||| |||||||  
DB 21 CGCGCGCAGCGCGCGCGCGG 1

## RESULT 711

US-10-310-914A-715436/c  
; Sequence 715436, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 715436  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-715436

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 9.8e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGCGG 671  
||||| ||||||| ||||||| |||||||  
DB 21 CGCGCGCAGCGCGCGCGCGG 1

## RESULT 712

US-10-310-914A-730803  
; Sequence 730803, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 730803  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-730803

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 81.0%; Pred. No. 9.8e+02;  
Matches 17; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1898 CACCCAGCTTGAGTCACCCA 1918  
||||| ||||||| ||||||| |||||||  
DB 1 CACCCAGCUUGAGGCCCCCA 21

## RESULT 713

US-10-310-914A-785691/c  
; Sequence 785691, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 785691  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-785691

Query Match 0.6%; Score 17.8; DB 1; Length 21;  
Best Local Similarity 90.5%; Pred. No. 9.8e+02;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGCGGG 673  
||||| ||||||| ||||||| |||||||  
DB 21 GCAGCTGCGCGCGCGCGCGG 1

## RESULT 714

US-10-310-914A-787627/c  
; Sequence 787627, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402

```
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 787627
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-787627

Query Match          0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 9.8e+02;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCAGCGCGG 664
Db 21 GCAGCAGCGCGCAGCGGACG 1

RESULT 715
US-10-310-914A-790492/c
; Sequence 790492, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 790492
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-790492

Query Match          0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 9.8e+02;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 204 CCGGGGGGGTGGGTGGGGG 224
Db 21 CCGGGGGGGGGGTGGGGG 1

RESULT 716
US-10-310-914A-819225
; Sequence 819225, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 819225
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-819225

Query Match          0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 71.4%; Pred. No. 9.8e+02;
Matches 15; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 985 GGCTCTGGCCCTGCTGTGG 1005
Db 1 GGCCCGGCCCAUGGUGCGG 21

RESULT 717
US-10-310-914A-839759
; Sequence 839759, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 839759
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-839759

Query Match          0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 9.8e+02;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 654 CAGCAGCGCGCGCGCGGG 674
Db 1 CAGCAGCGCGGAGCGCGGG 21

RESULT 718
US-10-310-914A-839962/c
; Sequence 839962, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 839962
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-839962

Query Match          0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 9.8e+02;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 654 CAGCAGCGCGCGCGCGGG 674
Db 21 CAGCAGCGCGCGCGCGGG 1

RESULT 719
US-10-310-914A-889436/c
; Sequence 889436, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
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; SEQ ID NO 889436
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-889436

Query Match          0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 9.8e+02;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 654 CAGCAGCGCGCGCGCGCGG 674
Db 21 CAGCCGCGCGCGCGCGCGG 1

RESULT 720
US-10-310-914A-89570
; Sequence 89570, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 89570
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-89570

Query Match          0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 81.0%; Pred. No. 9.8e+02;
Matches 17; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 208 GGGGGTGGGTTGGGGGGAGG 228
Db 1 GGGGGUGGGUGGGAGGUGG 21

RESULT 721
US-10-310-914A-906952
; Sequence 906952, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 906952
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-906952

Query Match          0.6%; Score 17.8; DB 1; Length 21;
Best Local Similarity 90.5%; Pred. No. 9.8e+02;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 643 GGCAGCAGCGCGCAGCGCGG 663
Db 1 GGCAGCAGCAGCAGCAGCAGC 21
```

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RESULT 722
US-10-310-914A-1001528/c
; Sequence 1001528, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1001528
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1001528

Query Match          0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGCGCGG 672
Db 21 GGCTGCGCGCGCGCGCGGG 1

RESULT 723
US-10-310-914A-1002247/c
; Sequence 1002247, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1002247
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1002247

Query Match          0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGCAGCAGCGCGCGCGCGG 671
Db 22 CGCGCGCGCGCGCGCGCGG 2

RESULT 724
US-10-310-914A-1036937/c
; Sequence 1036937, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1036937
```

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; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1036937

Query Match          0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGACGAGCGGCGGCGGCGG 671
      ||||| ||||| ||||| |||||
Db 22 CGGCGGCGGCGGCGGCGGCGG 2

RESULT 725
US-10-310-914A-104980
; Sequence 104980, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 104980
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-104980

Query Match          0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGGCGGCGGCGGCGG 672
      ||||| ||||| ||||| |||||
Db 2 GGCAGCAGCGGCGGCGGCGGCGG 22

RESULT 726
US-10-310-914A-1065873/c
; Sequence 1065873, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1065873
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1065873

Query Match          0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGACGAGCGGCGGCGGCGGCGG 671
      ||||| ||||| ||||| |||||
Db 21 CGGCGGCGGCGGCGGCGGCGG 1

RESULT 727
US-10-310-914A-1095919/c
; Sequence 1095919, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1095919
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1095919

Query Match          0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACCTGTGTCTC 2272
      ||||| ||||| ||||| |||||
Db 21 CAGTGGCTCACACCTGTGTGTC 1

RESULT 728
US-10-310-914A-1095920/c
; Sequence 1095920, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1095920
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1095920

Query Match          0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACCTGTGTCTC 2272
      ||||| ||||| ||||| |||||
Db 21 CAGTGGCTCACACCTGTGTGTC 1

RESULT 729
US-10-310-914A-1282881/c
; Sequence 1282881, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1282881
; LENGTH: 22
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; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1282881

Query Match          0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACCTGTGCTC 2272
      ||||| ||||| ||||| ||||| |||||
Db 21 CAGTGGCTCACACCTGTGATC 1

RESULT 730
US-10-310-914A-1329706/c
; Sequence 1329706, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1329706
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1329706

Query Match          0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 266 CCTCTGCTCTCTCTCTCTCTCC 286
      ||||| ||||| ||||| ||||| |||||
Db 21 CCTCTCTTCTCTCTCTCTCTCC 1

RESULT 731
US-10-310-914A-1356302
; Sequence 1356302, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1356302
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1356302

Query Match          0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCAGCAGCGCG 664
      ||||| ||||| ||||| ||||| |||||
Db 1 GCAGCAGCGCGCGCAGCAGCG 21

RESULT 732
US-10-310-914A-138546/c
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; Sequence 138546, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 138546
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-138546

Query Match          0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGCGCG 671
      ||||| ||||| ||||| ||||| |||||
Db 22 CGGCAGCGCGCGCGCGCGCG 2

RESULT 733
US-10-310-914A-156014/c
; Sequence 156014, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 156014
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-156014

Query Match          0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGCGCG 671
      ||||| ||||| ||||| ||||| |||||
Db 21 CGGCAGCGCGCGCGCGCGCG 1

RESULT 734
US-10-310-914A-158918/c
; Sequence 158918, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 158918
; LENGTH: 22
; TYPE: RNA
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; ORGANISM: Human
US-10-310-914A-158918

Query Match          0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACCTGTGCTC 2272
Db 21 CAGTGGCTCACACCTGTGATC 1

RESULT 735
US-10-310-914A-167734/c
; Sequence 167734, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 167734
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-167734

Query Match          0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCACGCGCGCGCGCGCGG 671
Db 22 CGCGCGCGCGCGCGCGCGCGG 2

RESULT 736
US-10-310-914A-169351/c
; Sequence 169351, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 169351
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-169351

Query Match          0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCACGCGCGCGCGCGCGG 671
Db 21 CGCGCGCGCGCGCGCGCGCGG 1

RESULT 737
US-10-310-914A-170669
; Sequence 170669, Application US/10310914A

; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 170669
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-170669

Query Match          0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 85.7%; Pred. No. 1.1e+03;
Matches 18; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 659 GCGGCGCGCGCGCGGCGCTGTG 679
Db 1 GCGGCGCGCGCGGUGCGCGC 21

RESULT 738
US-10-310-914A-172447/c
; Sequence 172447, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 172447
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-172447

Query Match          0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 894 GGACGGGGGGGGGTGGCGC 914
Db 22 GGGCGGGGGCGGGGGGGCGC 2

RESULT 739
US-10-310-914A-182474
; Sequence 182474, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 182474
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-182474
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US-10-310-914A-182474

Query Match 0.6%; Score 17.8; DB 1; Length 22;  
Best Local Similarity 90.5%; Pred. No. 1.1e+03;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGCGG 673  
DB 1 GCGCGCGCGCGCGCGCGG 21

RESULT 740

US-10-310-914A-202560/c  
; Sequence 202560, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 202560

; LENGTH: 22

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-202560

Query Match 0.6%; Score 17.8; DB 1; Length 22;  
Best Local Similarity 90.5%; Pred. No. 1.1e+03;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2693 TTCTGACCATGTTTGGAGT 2713  
DB 21 TTCTGACCATGTTTGGGGT 1

RESULT 741

US-10-310-914A-223603/c  
; Sequence 223603, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 223603

; LENGTH: 22

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-223603

Query Match 0.6%; Score 17.8; DB 1; Length 22;  
Best Local Similarity 90.5%; Pred. No. 1.1e+03;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GCAGCAGCGCGCGCGCGG 672  
DB 21 GCGCAGCAGCGCGCGCGG 1

RESULT 742

US-10-310-914A-226973/c  
; Sequence 226973, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 226973  
; LENGTH: 22  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-226973

Query Match 0.6%; Score 17.8; DB 1; Length 22;  
Best Local Similarity 90.5%; Pred. No. 1.1e+03;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 208 GCGGGTGGGGTGGGGGAGG 228  
DB 21 GCGGGCGGGTGGGGGAGG 1

RESULT 743

US-10-310-914A-241978/c  
; Sequence 241978, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 241978

; LENGTH: 22

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-241978

Query Match 0.6%; Score 17.8; DB 1; Length 22;  
Best Local Similarity 90.5%; Pred. No. 1.1e+03;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGCAGCAGCGCGCGCGG 671  
DB 22 CGCGCGCGCGCGCGCGG 2

RESULT 744

US-10-310-914A-245295/c  
; Sequence 245295, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 245295

; LENGTH: 22

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-245295

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Query Match          0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGCGG 670
      ||||| ||||| ||||| ||||| |||||
Db 22 GCGCGCGCGCGCGCGCGCGCGG 2

RESULT 745
US-10-310-914A-262260/c
; Sequence 262260, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 262260
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-262260

Query Match          0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGCGG 671
      ||||| ||||| ||||| ||||| |||||
Db 21 CGCGCGCGCGCGCGCGCGCGG 1

RESULT 746
US-10-310-914A-275943/c
; Sequence 275943, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 275943
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-275943

Query Match          0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGCGG 671
      ||||| ||||| ||||| ||||| |||||
Db 22 CGCGCGCGCGCGCGCGCGCGG 2

RESULT 747
US-10-310-914A-287998/c
; Sequence 287998, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
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; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 287998
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-287998

Query Match          0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 303 TCTCGTCTCTCCCTCCCTCCG 323
      ||||| ||||| ||||| ||||| |||||
Db 22 TCTCGTCTCTCTCCCTCCCTCCG 2

RESULT 748
US-10-310-914A-339030/c
; Sequence 339030, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 339030
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-339030

Query Match          0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGCGG 671
      ||||| ||||| ||||| ||||| |||||
Db 22 CGCGCGCGCGCGCGCGCGCGG 2

RESULT 749
US-10-310-914A-339261
; Sequence 339261, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 339261
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-339261
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Query Match          0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGCGG 673
Db 1 GCAGCAGCGCGCGCGCGCGG 21

RESULT 750
US-10-310-914A-346636
; Sequence 346636, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 346636
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-346636

Query Match          0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGCGCGCGCGCGCGCGG 671
Db 1 CGCGCGCGCGCGCGCGG 21

RESULT 751
US-10-310-914A-367825/c
; Sequence 367825, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 367825
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-367825

Query Match          0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 280 CTCCTCCACCACTCTCTC 300
Db 21 CTCCTCCACCACTCTCTC 1

RESULT 752
US-10-310-914A-374247/c
; Sequence 374247, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
```

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; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 374247
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-374247

Query Match          0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 286 CTTCTCTGCTCTCTCTCTCC 286
Db 22 CTTCTCTGCTCTCTCTCTCC 2

RESULT 753
US-10-310-914A-385484/c
; Sequence 385484, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 385484
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-385484

Query Match          0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 647 GCAGCGCAGCAGCGCGCGG 667
Db 22 GCAGCGCAGCAGCGCGCGG 2

RESULT 754
US-10-310-914A-416104
; Sequence 416104, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 416104
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-416104

Query Match          0.6%; Score 17.8; DB 1; Length 22;
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```
Matches 18; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 2078 CCCAGCCCTGGCTGGCC 2098
      ||||| | | | | |
Db 2 CCCAGCCCGCGCCUCGGCC 22
      ||||| | | | | |

RESULT 760
US-10-310-914A-48599/c
; Sequence 48599, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 48599
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-48599

Query Match 0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 651 CGGCAGCAGCGCGCGCGCG 671
      ||||| | | | | |
Db 22 CGCGCGCGCGCGCGCGCG 2
      ||||| | | | | |

RESULT 761
US-10-310-914A-505776/c
; Sequence 505776, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 505776
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-505776

Query Match 0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 642 AGGCAGCAGCGCGCAGCTG 662
      ||||| | | | | |
Db 22 AGGCAGCAGCGCGCAGCTG 2
      ||||| | | | | |

RESULT 762
US-10-310-914A-564552
; Sequence 564552, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
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; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 564552
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-564552

Query Match 0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 649 AGCGCAGCAGCGCGCGCGC 669
      ||||| | | | | |
Db 1 AGCGCGCGCGCGCGCGCGC 21
      ||||| | | | | |

RESULT 763
US-10-310-914A-579773
; Sequence 579773, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 579773
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-579773

Query Match 0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 644 GCAGCAGCGCGCAGCGCGC 664
      ||||| | | | | |
Db 1 GCAGCAGCGCGCGCAGCGCGC 21
      ||||| | | | | |

RESULT 764
US-10-310-914A-62883/c
; Sequence 62883, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 62883
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-62883

Query Match 0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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QY 898 GGGGGCGGGGTGGCCAGGG 918  
DB 21 GGGGGCGGGGTGCGCCGGG 1

RESULT 765  
US-10-310-914A-629549  
; Sequence 629549, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 629549  
; LENGTH: 22  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-629549

Query Match 0.6%; Score 17.8; DB 1; Length 22;  
Best Local Similarity 90.5%; Pred. No. 1.1e+03;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGCAGCAGCGCGCGCGG 670  
DB 2 GCGGCGCGCGCGCGCGCGG 22

RESULT 766  
US-10-310-914A-632079/c  
; Sequence 632079, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 632079  
; LENGTH: 22  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-632079

Query Match 0.6%; Score 17.8; DB 1; Length 22;  
Best Local Similarity 90.5%; Pred. No. 1.1e+03;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 671  
DB 22 CGGCGCGCGCGCGCGCGG 2

RESULT 767  
US-10-310-914A-691361/c  
; Sequence 691361, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 691361  
; LENGTH: 22  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-691361

Query Match 0.6%; Score 17.8; DB 1; Length 22;  
Best Local Similarity 90.5%; Pred. No. 1.1e+03;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 691361  
; LENGTH: 22  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-691361

Query Match 0.6%; Score 17.8; DB 1; Length 22;  
Best Local Similarity 90.5%; Pred. No. 1.1e+03;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 671  
DB 21 CGGCGCGCGCGCGCGCGG 1

RESULT 768  
US-10-310-914A-704782  
; Sequence 704782, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 704782  
; LENGTH: 22  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-704782

Query Match 0.6%; Score 17.8; DB 1; Length 22;  
Best Local Similarity 66.7%; Pred. No. 1.1e+03;  
Matches 14; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 274 CTCCTCTCTCTCCACCTC 294  
DB 1 CUCCUCCUCCUCCUCCUC 21

RESULT 769  
US-10-310-914A-715444/c  
; Sequence 715444, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 715444  
; LENGTH: 22  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-715444

Query Match 0.6%; Score 17.8; DB 1; Length 22;  
Best Local Similarity 90.5%; Pred. No. 1.1e+03;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;



QY 651 CGCAGCAGCGCGCGCGCGG 671  
||||| ||| |||||  
Db 22 CGCAGCGCGCGACGCGCGG 2

## RESULT 770

US-10-310-914A-726805/c  
; Sequence 726805, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 726805  
; LENGTH: 22  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-726805

Query Match 0.6%; Score 17.8; DB 1; Length 22;  
Best Local Similarity 90.5%; Pred. No. 1.1e+03;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGCAGCAGCGCGCGCGCGG 671  
||||| ||| |||||  
Db 21 CGCGCGCGCGCGCGCGG 1

## RESULT 771

US-10-310-914A-78335/c  
; Sequence 78335, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 78335  
; LENGTH: 22  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-78335

Query Match 0.6%; Score 17.8; DB 1; Length 22;  
Best Local Similarity 90.5%; Pred. No. 1.1e+03;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGCAGCAGCGCGCGCGCGG 671  
||||| ||| |||||  
Db 22 CGCGCGCGCGCGCGCGG 2

## RESULT 772

US-10-310-914A-788827  
; Sequence 788827, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 788827  
; LENGTH: 22  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-788827

Query Match 0.6%; Score 17.8; DB 1; Length 22;  
Best Local Similarity 90.5%; Pred. No. 1.1e+03;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGCGCGG 672  
||||| ||| |||||  
Db 2 GCGCGCGCGCGCGCGG 22

## RESULT 773

US-10-310-914A-792979/c  
; Sequence 792979, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 792979  
; LENGTH: 22  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-792979

Query Match 0.6%; Score 17.8; DB 1; Length 22;  
Best Local Similarity 90.5%; Pred. No. 1.1e+03;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGCGCGG 672  
||||| ||| |||||  
Db 21 GGCAGAGCGCGCGCGCGG 1

## RESULT 774

US-10-310-914A-793012/c  
; Sequence 793012, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 793012  
; LENGTH: 22  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-793012

Query Match 0.6%; Score 17.8; DB 1; Length 22;  
Best Local Similarity 90.5%; Pred. No. 1.1e+03;  
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGCGG 673

Db	Seq ID	Seq	Score	DB 1	DB 2	DB 3	DB 4	DB 5	DB 6	DB 7	DB 8	DB 9	DB 10	DB 11	DB 12	DB 13	DB 14	DB 15	DB 16	DB 17	DB 18	DB 19	DB 20	DB 21	DB 22	DB 23	DB 24	DB 25	DB 26	DB 27	DB 28	DB 29	DB 30	DB 31	DB 32	DB 33	DB 34	DB 35	DB 36	DB 37	DB 38	DB 39	DB 40	DB 41	DB 42	DB 43	DB 44	DB 45	DB 46	DB 47	DB 48	DB 49	DB 50	DB 51	DB 52	DB 53	DB 54	DB 55	DB 56	DB 57	DB 58	DB 59	DB 60	DB 61	DB 62	DB 63	DB 64	DB 65	DB 66	DB 67	DB 68	DB 69	DB 70	DB 71	DB 72	DB 73	DB 74	DB 75	DB 76	DB 77	DB 78	DB 79	DB 80	DB 81	DB 82	DB 83	DB 84	DB 85	DB 86	DB 87	DB 88	DB 89	DB 90	DB 91	DB 92	DB 93	DB 94	DB 95	DB 96	DB 97	DB 98	DB 99	DB 100	DB 101	DB 102	DB 103	DB 104	DB 105	DB 106	DB 107	DB 108	DB 109	DB 110	DB 111	DB 112	DB 113	DB 114	DB 115	DB 116	DB 117	DB 118	DB 119	DB 120	DB 121	DB 122	DB 123	DB 124	DB 125	DB 126	DB 127	DB 128	DB 129	DB 130	DB 131	DB 132	DB 133	DB 134	DB 135	DB 136	DB 137	DB 138	DB 139	DB 140	DB 141	DB 142	DB 143	DB 144	DB 145	DB 146	DB 147	DB 148	DB 149	DB 150	DB 151	DB 152	DB 153	DB 154	DB 155	DB 156	DB 157	DB 158	DB 159	DB 160	DB 161	DB 162	DB 163	DB 164	DB 165	DB 166	DB 167	DB 168	DB 169	DB 170	DB 171	DB 172	DB 173	DB 174	DB 175	DB 176	DB 177	DB 178	DB 179	DB 180	DB 181	DB 182	DB 183	DB 184	DB 185	DB 186	DB 187	DB 188	DB 189	DB 190	DB 191	DB 192	DB 193	DB 194	DB 195	DB 196	DB 197	DB 198	DB 199	DB 200	DB 201	DB 202	DB 203	DB 204	DB 205	DB 206	DB 207	DB 208	DB 209	DB 210	DB 211	DB 212	DB 213	DB 214	DB 215	DB 216	DB 217	DB 218	DB 219	DB 220	DB 221	DB 222	DB 223	DB 224	DB 225	DB 226	DB 227	DB 228	DB 229	DB 230	DB 231	DB 232	DB 233	DB 234	DB 235	DB 236	DB 237	DB 238	DB 239	DB 240	DB 241	DB 242	DB 243	DB 244	DB 245	DB 246	DB 247	DB 248	DB 249	DB 250	DB 251	DB 252	DB 253	DB 254	DB 255	DB 256	DB 257	DB 258	DB 259	DB 260	DB 261	DB 262	DB 263	DB 264	DB 265	DB 266	DB 267	DB 268	DB 269	DB 270	DB 271	DB 272	DB 273	DB 274	DB 275	DB 276	DB 277	DB 278	DB 279	DB 280	DB 281	DB 282	DB 283	DB 284	DB 285	DB 286	DB 287	DB 288	DB 289	DB 290	DB 291	DB 292	DB 293	DB 294	DB 295	DB 296	DB 297	DB 298	DB 299	DB 300	DB 301	DB 302	DB 303	DB 304	DB 305	DB 306	DB 307	DB 308	DB 309	DB 310	DB 311	DB 312	DB 313	DB 314	DB 315	DB 316	DB 317	DB 318	DB 319	DB 320	DB 321	DB 322	DB 323	DB 324	DB 325	DB 326	DB 327	DB 328	DB 329	DB 330	DB 331	DB 332	DB 333	DB 334	DB 335	DB 336	DB 337	DB 338	DB 339	DB 340	DB 341	DB 342	DB 343	DB 344	DB 345	DB 346	DB 347	DB 348	DB 349	DB 350	DB 351	DB 352	DB 353	DB 354	DB 355	DB 356	DB 357	DB 358	DB 359	DB 360	DB 361	DB 362	DB 363	DB 364	DB 365	DB 366	DB 367	DB 368	DB 369	DB 370	DB 371	DB 372	DB 373	DB 374	DB 375	DB 376	DB 377	DB 378	DB 379	DB 380	DB 381	DB 382	DB 383	DB 384	DB 385	DB 386	DB 387	DB 388	DB 389	DB 390	DB 391	DB 392	DB 393	DB 394	DB 395	DB 396	DB 397	DB 398	DB 399	DB 400	DB 401	DB 402	DB 403	DB 404	DB 405	DB 406	DB 407	DB 408	DB 409	DB 410	DB 411	DB 412	DB 413	DB 414	DB 415	DB 416	DB 417
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Db      22  CGCGCGCGCGCGCGCGCGCG 2

RESULT 780
US-10-310-914A-881891/c
; Sequence 881891, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 881891
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-881891

Query Match      0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      657  CAGCGCGCGCGCGCGCGCGCTG 677
Db      22  CGCGCGCGCGCGCGCGCGCTG 2

RESULT 781
US-10-310-914A-88223
; Sequence 88223, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 88223
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-88223

Query Match      0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 85.7%; Pred. No. 1.1e+03;
Matches 18; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      656  GCAGCGCGCGCGCGCGGCT 676
Db      1   GCAGUGCGCGCGCGCGCGCU 21

RESULT 782
US-10-310-914A-900527
; Sequence 900527, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
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; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 900527
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-900527

Query Match      0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      646  AGCAGCGCGCAGCGCGCGC 666
Db      1   AGCAGCGCGCAGCGCGCGCAGC 21

RESULT 783
US-10-310-914A-918189/c
; Sequence 918189, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 918189
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-918189

Query Match      0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      650  GCGCGCAGCAGCGCGCGCGCG 670
Db      22  GCGCGCGCGCGCGCGCGCGCG 2

RESULT 784
US-10-310-914A-983807/c
; Sequence 983807, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 983807
; LENGTH: 22
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-983807

Query Match      0.6%; Score 17.8; DB 1; Length 22;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      651  CGGCAGCAGCGCGCGCGCGCGG 671
Db      21  CGCGCGCGCGCGCGCGCGCGG 1
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RESULT 790
US-10-310-914A-1286259
; Sequence 1286259, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1286259
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1286259

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 8.4e+02;
Matches 14; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 272 GCCTCTCTCTCTCTCCACCA 290
|||:||||:||||:|||||
Db 1 GCCUCCUCCUCCUCCUCCA 19

RESULT 791
US-10-310-914A-1287810
; Sequence 1287810, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1287810
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1287810

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 8.4e+02;
Matches 14; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 272 GCCTCTCTCTCTCTCCACCA 290
|||:||||:||||:|||||
Db 1 GCCUCCUCCUCCUCCUCCA 19

RESULT 792
US-10-310-914A-1286259
; Sequence 1286259, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1286259
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1286259

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 8.4e+02;
Matches 14; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 272 GCCTCTCTCTCTCTCCACCA 290
|||:||||:||||:|||||
Db 1 GCCUCCUCCUCCUCCUCCA 19

RESULT 791
US-10-310-914A-1287810
; Sequence 1287810, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1287810
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1287810

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 8.4e+02;
Matches 14; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 272 GCCTCTCTCTCTCTCCACCA 290
|||:||||:||||:|||||
Db 1 GCCUCCUCCUCCUCCUCCA 19

RESULT 792
US-10-310-914A-1286259
; Sequence 1286259, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1286259
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1286259

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 8.4e+02;
Matches 14; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 272 GCCTCTCTCTCTCTCCACCA 290
|||:||||:||||:|||||
Db 1 GCCUCCUCCUCCUCCUCCA 19
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; SEQ ID NO 1295963
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1295963

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGCGCGG 670
|||||:|||||:|||||:|||||
Db 19 GGCAGCAGCGCGCGCGCGG 1

RESULT 793
US-10-310-914A-1376433/c
; Sequence 1376433, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1376433
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1376433

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 654 CAGCAGCGCGCGCGCGGG 672
|||||:|||||:|||||:|||||
Db 19 CAGCAGCGCGCGCGCGGG 1

RESULT 794
US-10-310-914A-1376434/c
; Sequence 1376434, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1376434
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1376434

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGCGG 671
|||||:|||||:|||||:|||||
Db 19 GCAGCAGCGCGCGCGCGG 1
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RESULT 795
US-10-310-914A-188857
; Sequence 188857, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 188857
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-188857

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 8.4e+02;
Matches 15; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 280 CTCCTCCACCACCTCTCC 298
Db 1 CUCCUCCACCACCGCCUCC 19

RESULT 796
US-10-310-914A-202519/c
; Sequence 202519, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 202519
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-202519

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 647 GCAGCGGCAGCAGCGCGG 665
Db 19 GCAGCAGCAGCAGCGCGG 1

RESULT 797
US-10-310-914A-215731
; Sequence 215731, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 215731
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; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-215731

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 8.4e+02;
Matches 12; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 268 TCTGCTCTCTCTCTCTCC 286
Db 1 UCCUCCUCCUCCUCCUCC 19

RESULT 798
US-10-310-914A-218510
; Sequence 218510, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 218510
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-218510

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 8.4e+02;
Matches 16; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 202 CCCCCGGGGGGTGGGTGG 220
Db 1 CCCCCGGGGGGTGGGTGG 19

RESULT 799
US-10-310-914A-221990/c
; Sequence 221990, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 221990
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-221990

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 339 CCTTGGGAAGGGTGTGG 357
Db 19 CCTCGGAAGGGTGTGG 1

RESULT 800
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US-10-310-914A-221995/c
; Sequence 221995, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 221995
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-221995

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 371 CCCCAAGCGGAGCCCGC 389
Db 19 CCCCAAGCGGAGACCCG 1

RESULT 801
US-10-310-914A-221997/c
; Sequence 221997, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 221997
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-221997

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 328 TGACGCTGCTCTCGGA 346
Db 19 TGACGCTGCTCTCGGA 1

RESULT 802
US-10-310-914A-238188/c
; Sequence 238188, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 238188
; LENGTH: 19
```

```
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-238188

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGCGG 670
Db 19 GGCAGCAGCGCGCGCGG 1

RESULT 803
US-10-310-914A-339990
; Sequence 339990, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 339990
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-339990

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 650 GCGCAGCAGCGCGCGG 668
Db 1 GCAGCAGCAGCGCGCGG 19

RESULT 804
US-10-310-914A-363981/c
; Sequence 363981, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 363981
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-363981

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2059 GAGGAGGAGCTGCCTCA 2077
Db 19 GAGGAGGAGCTGCCTCA 1

RESULT 805
US-10-310-914A-370633/c
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; Sequence 370633, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 370633
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-370633

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2655 CCGTGTTCCTCCACCCCTC 2673
Db 19 CCGTGTTCCTCCACCCCTC 1

RESULT 806
US-10-310-914A-399550
; Sequence 399550, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 399550
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-399550

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGG 668
Db 1 GCGGCAGCAGCGCGCGG 19

RESULT 807
US-10-310-914A-430594
; Sequence 430594, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 430594
; LENGTH: 19
; TYPE: RNA
US-10-310-914A-430594

; Sequence 370633, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 370633
; LENGTH: 19
; TYPE: RNA
US-10-310-914A-430594

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 279 CCTCTCCACCACTCTCTC 297
Db 1 CCUCCUGCACCACCUCCUC 19

RESULT 808
US-10-310-914A-585075
; Sequence 585075, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 585075
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-585075

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 8.4e+02;
Matches 13; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 278 TCCTCTCCACCACTCTCT 296
Db 1 UCCUCCUCCACCUCCUCU 19

RESULT 809
US-10-310-914A-632591
; Sequence 632591, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 632591
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-632591

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 8.4e+02;
Matches 14; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 272 GCCTCTCTCTCTCTCCACCA 290
Db 1 GCCUCCUCCUCCUCCACCA 19

RESULT 810
US-10-310-914A-649502/c
; Sequence 649502, Application US/10310914A
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US-10-310-914A-711677

Query Match          0.6%;      Score 17.4;  DB 1;      Length 19;
Best Local Similarity 94.7%;  Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      208  GGGGGTGGGGTGGGGGGGA  226
          |||||
Db       19  GGGGGTGGGGTGGGGGGAA  1

RESULT 813
US-10-310-914A-73002
; Sequence 73002, Application US/10310914A
; Publication No. US2006000322A1
; GENERAL INFORMATION.

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?
? APPLICANT: SHILIER, KVRZAT
? APPLICANT: BENLWICH, ISAAC
? TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
? TITLE OF INVENTION: uses thereof
? FILE REFERENCE: 06087.0200.CPUS01
? CURRENT APPLICATION NUMBER: US/10/310,914A
? CURRENT FILING DATE: 2002-12-06
? NUMBER OF SEQ ID NOS: 1388402
?
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; SEQ ID NO 73002
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-73002

Query Match      0.6%      Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+00;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      654  CAGCAGCGCGCGCGCGGG  672
          |||||
Db      1  CAGCGCGCGCGCGCGGG  19

RESULT 814
US-10-310-914A-73029
; Sequence 73029, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:

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,
,
,
,
, APPLICANT: Shilpa K. Kshirsagar
,
, TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
,
, FILE REFERENCES: 06087.0200.CPUS01
,
, CURRENT APPLICATION NUMBER: US/10/310,914A
,
, CURRENT FILING DATE: 2002-12-06
,
, NUMBER OF SEQ ID NOS: 1388402
,
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```

; SEQ ID NO 73025
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
;
US-10-310-914A-73029

Query Match          0.6%;   Score 17.4;   DB 1;   Length 19;
Best Local Similarity 94.7%;   Pred. No. 8.4e+02;
Matches 18;   Conservative 0;   Mismatches 1;   Indels 0;   Gaps 0;

Qy      552  GGCAGCGCGCGCGCGCGCG 670
          |||||  |||||  |||||  |||||
Db      552  GGCAGCGCGCGCGCGCGCG 670

RESULT 815
US-10-310-914A-756967
; Sequence 756967, Application US/10310914A
; Publication No. US20060003322A1

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```
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 756967
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-756967

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2361 AGAAAGACAGACAGACAGA 2379
   ||| ||||| ||||| |||||
Db 1 AGACAGACAGACAGACAGA 19

RESULT 816
US-10-310-914A-756968
; Sequence 756968, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 756968
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-756968

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2361 AGAAAGACAGACAGACAGA 2379
   ||| ||||| ||||| |||||
Db 1 AGACAGACAGACAGACAGA 19

RESULT 817
US-10-310-914A-756969
; Sequence 756969, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 756969
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-756969
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Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2361 AGAAAGACAGACAGACAGA 2379
   ||| ||||| ||||| |||||
Db 1 AGACAGACAGACAGACAGA 19

RESULT 818
US-10-310-914A-756970
; Sequence 756970, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 756970
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-756970

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2361 AGAAAGACAGACAGACAGA 2379
   ||| ||||| ||||| |||||
Db 1 AGACAGACAGACAGACAGA 19

RESULT 819
US-10-310-914A-756971
; Sequence 756971, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 756971
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-756971

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2361 AGAAAGACAGACAGACAGA 2379
   ||| ||||| ||||| |||||
Db 1 AGACAGACAGACAGACAGA 19

RESULT 820
US-10-310-914A-756972
; Sequence 756972, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
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; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 756972
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-756972

Query Match      0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2361 AGAAGACAGACAGACAGAGA 2379
    ||| ||||| ||||| ||||| |||||
Db 1 AGACAGACAGACAGACAGAGA 19

RESULT 821
US-10-310-914A-785682/c
; Sequence 785682, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 785682
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-785682

Query Match      0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGCGG 671
    ||||| ||||| ||||| ||||| |||||
Db 19 GCAGCAGCTGCGCGCGCGG 1

RESULT 822
US-10-310-914A-785683/c
; Sequence 785683, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 785683
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-785683
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Query Match      0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGCGG 671
    ||||| ||||| ||||| ||||| |||||
Db 19 GCAGCTGCGCGCGCGCGG 1

RESULT 823
US-10-310-914A-798846/c
; Sequence 798846, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 798846
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-798846

Query Match      0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGCGG 671
    ||||| ||||| ||||| ||||| |||||
Db 19 GCAGCAGCGCGCGCGCGG 1

RESULT 824
US-10-310-914A-839850
; Sequence 839850, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 839850
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-839850

Query Match      0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 650 GCGCAGCAGCGCGCGCGG 668
    ||||| ||||| ||||| ||||| |||||
Db 1 GCAGCAGCAGCGCGCGCGG 19

RESULT 825
US-10-310-914A-858360/c
; Sequence 858360, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
```

```
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 858360
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-858360

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 651 CGCAGCAGCGCGCGCGC 669
Db 19 CGCGCGCAGCGCGCGCGC 1

RESULT 826
US-10-310-914A-89789/c
; Sequence 89789, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 89789
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-89789

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGCGCGC 670
Db 19 GGCAGCGCGCGCGCGCGCGC 1

RESULT 827
US-10-310-914A-964819
; Sequence 964819, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 964819
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-964819

Query Match          0.6%; Score 17.4; DB 1; Length 19;
```

```
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGCGCGC 670
Db 1 GCGCGCAGCGCGCGCGCGC 19

RESULT 828
US-11-083-784-1159726
; Sequence 1159726, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1159726
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1159726

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2362 GAAAGACAGACAGACAGAA 2380
Db 1 GAAAGAACAGACAGACAGAA 19

RESULT 829
US-11-083-784-1218890
; Sequence 1218890, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1218890
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
```

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US-11-083-784-1218890
Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 8.4e+02;
Matches 11; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY   1832 TGTACTACCTCCCTGGCTAT 1850
      :|::||::||::||::||::||:
Db    1 UGUACUACUUCUGGCUAU 19

RESULT 830
US-11-083-784-1254149/C
; Sequence 1254149, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1254149
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1254149

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY   1680 TTTCGTGGTGGCTGTGGTC 1698
      |||||||||
Db    19 TTTCGTGGTGTGTGGTC 1

RESULT 831
US-11-083-784-264920
; Sequence 264920, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 264920
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-264920

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 8.4e+02;
Matches 12; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY   1344 CAACATCATCGACTTTGTG 1362
      |||||::|::|::|::|::|:
Db    1 CAACAUCUAUUGACUUUGUG 19

RESULT 832
US-11-083-784-265765
; Sequence 265765, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265765
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-265765

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 8.4e+02;
Matches 12; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY   1344 CAACATCATCGACTTTGTG 1362
      |||||::|::|::|::|::|:
Db    1 CAACAUCUAUUGACUUUGUG 19

RESULT 833
US-11-083-784-265770
; Sequence 265770, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 264920

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; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265770
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-265770

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 8.4e+02;
Matches 14; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 823 GAACCTGCTGCTGGATGA 841
DB 1 GAGCCCGUGCGUGGAUGA 19

RESULT 834
US-11-083-784-265811
; Sequence 265811, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265811
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-265811

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 8.4e+02;
Matches 16; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1526 GGCCGAGCACCAACGAGTT 1544
DB 1 GAGCCGAGCACCAACGAGUU 19

RESULT 835
US-11-083-784-265852
; Sequence 265852, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265852
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-265852

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 8.4e+02;
Matches 14; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 823 GAACCTGCTGCTGGATGA 841
DB 1 GAGCCCGUGCGUGGAUGA 19

RESULT 836
US-11-083-784-265897
; Sequence 265897, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265897
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-265897

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 8.4e+02;
Matches 14; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 823 GAACCTGCTGCTGGATGA 841
DB 1 GAGCCCGUGCGUGGAUGA 19

RESULT 837
US-11-083-784-265937
; Sequence 265937, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
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; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083.784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714.333
; PRIOR FILING DATE: 2003-11-14
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266050
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266050

Query Match      0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 8.4e+02;
Matches 12; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY      713 CCTATGTGCTCAACTACTA 731
      |||:|:|:|:|:|:|:|:|:|:|
Db      1 CCUAGUGGUCUAAUACUA 19

RESULT 840
US-11-083-784-266096
; Sequence 266096, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083.784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714.333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266096
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266096

Query Match      0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 8.4e+02;
Matches 14; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY      823 GAACCCCTGCTGCTGGATGA 841
      |||:|:|:|:|:|:|:|:|:|:|
Db      1 GAGCCUUGGUCUGGAUGA 19

RESULT 841
US-11-083-784-266166
; Sequence 266166, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083.784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714.333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266166
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266166

Query Match      0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 8.4e+02;
Matches 14; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY      823 GAACCCCTGCTGCTGGATGA 841
      |||:|:~|:|:|:|:|:|:|:|
Db      1 GAGCCUUGGUCUGGAUGA 19

RESULT 839
US-11-083-784-265958
; Sequence 265958, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083.784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714.333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265958
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-265958

Query Match      0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 8.4e+02;
Matches 14; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY      823 GAACCCCTGCTGCTGGATGA 841
      |||:|:~|:|:|:|:|:|:|:|
Db      1 GAGCCUUGGUCUGGAUGA 19

RESULT 838
US-11-083-784-265937
; Sequence 265937, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083.784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714.333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265937
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-265937

Query Match      0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 8.4e+02;
Matches 12; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY      713 CCTATGTGCTCAACTACTA 731
      |||:|:~|:|:~|:|:~|:|:~|
Db      1 CCUAGUGGUCUAAUACUA 19

```

```
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266166
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266166
```

```
Query Match 0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 8.4e+02;
Matches 15; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
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QY 1652 ACACCGACTTCAGACAT 1670
||||| ||||| ||||| |||||
Db 1 ACACCUACUUCAGACAU 19
```

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RESULT 842
US-11-083-784-266172
; Sequence 266172, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266172
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266172
```

```
Query Match 0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 8.4e+02;
Matches 12; Conservative 6; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1343 TCAACATCATCGACTTGT 1361
||||| ||||| ||||| |||||
Db 1 UCAACAUCACGACUGUGU 19
```

```
RESULT 843
US-11-083-784-266203
; Sequence 266203, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
```

```
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266203
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266203
```

```
Query Match 0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 8.4e+02;
Matches 16; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 2448 GCACAAGACTGTGGAAAA 2466
||||| ||||| ||||| |||||
Db 1 GCACAGGACUGGUGGAAAA 19
```

```
RESULT 844
US-11-083-784-266225
; Sequence 266225, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266225
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266225
```

```
Query Match 0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 8.4e+02;
Matches 15; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1643 GCAATGACCACACCGACTT 1661
||||| ||||| ||||| |||||
Db 1 GUAAGACCACACCGACUU 19
```

```
RESULT 845
US-11-083-784-266227
; Sequence 266227, Application US/11083784
```



```

; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266227
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266227

Query Match      0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 8.4e+02;
Matches 13; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 713 CCTATGTGCTCAACTACTA 731
DB 1 CCUACGUGCUCAACUACUA 19

RESULT 846
US-11-083-784-266230
; Sequence 266230, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266230
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266230

Query Match      0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1868 CCAAGAAACGAAGAAGCA 1886
DB 1 CCAAGAAACGAAGAAGCA 19

; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266244
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266244

Query Match      0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 8.4e+02;
Matches 15; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1985 GCGAAGAGCGTATGCTCGA 2003
DB 1 GCGAAGAGCGGUAUGAUCGA 19

RESULT 848
US-11-083-784-266248
; Sequence 266248, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266248
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266248

Query Match      0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.4e+02;
Matches 17; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1217 GCGCGGAGGTAGAAACAGA 1235
DB 1 GCGCGGAGGTAGAAACAGA 1235
```



Query Match 0.6%; Score 17.4; DB 1; Length 19;  
Best Local Similarity 73.7%; Pred. No. 8.4e+02;  
Matches 14; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1394 TGAGTGGCTGTGATCAAA 1412  
:|||||:|||||:|||||:  
Db 1 UGAGCGGCCUGUCAUCAA 19

## RESULT 853

US-11-083-784-266281  
; Sequence 266281, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; PRIOR FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 266281  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-266281

Query Match 0.6%; Score 17.4; DB 1; Length 19;  
Best Local Similarity 84.2%; Pred. No. 8.4e+02;  
Matches 16; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1527 GCCCAGCACCAAGAGTTC 1545  
:|||||:|||||:|||||:  
Db 1 GCCCAGCACCAAGAGUUC 19

## RESULT 854

US-11-083-784-266284  
; Sequence 266284, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; PRIOR FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 266284  
; LENGTH: 19  
; TYPE: RNA

; ORGANISM: Homo sapiens  
US-11-083-784-266284

Query Match 0.6%; Score 17.4; DB 1; Length 19;  
Best Local Similarity 84.2%; Pred. No. 8.4e+02;  
Matches 16; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2382 GCCAGGCTTAGGAAAC 2400  
:|||||:|||||:|||||:  
Db 1 GCCAGGCTUAGGGAAC 19

## RESULT 855

US-11-083-784-266310  
; Sequence 266310, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; PRIOR FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 266310  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-266310

Query Match 0.6%; Score 17.4; DB 1; Length 19;  
Best Local Similarity 78.9%; Pred. No. 8.4e+02;  
Matches 15; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1643 GCAATGACCACACGACTT 1661  
:|||||:|||||:|||||:  
Db 1 GUAUGACCACACGACU 19

## RESULT 856

US-11-083-784-266312  
; Sequence 266312, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; PRIOR FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary

```
; SEQ ID NO 266312
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266312

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 8.4e+02;
Matches 13; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 713 CCTATGTGCTCAACTACTA 731
||:| |:| |:| |:| |:| |:| |:|
Db 1 CCUACGCGUCACUACUA 19

RESULT 857
US-11-083-784-266316
; Sequence 266316, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266316
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266316

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1868 CCAAGAACGGAAGAGCA 1886
||||| ||||| ||||| |||||
Db 1 CCAAGAACGGAAGAGCA 19

RESULT 858
US-11-083-784-266326
; Sequence 266326, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266326
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266326

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.4e+02;
Matches 17; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1217 GCGCGGAGGTAGAACAGA 1235
||||| ||||| ||||| |||||
Db 1 GCGCGGAGGTAGAACAGA 19

RESULT 859
US-11-083-784-266328
; Sequence 266328, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266328
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266328

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.4e+02;
Matches 17; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1217 GCGCGGAGGTAGAACAGA 1235
||||| ||||| ||||| |||||
Db 1 GCGCGGAGGTAGAACAGA 19

RESULT 860
US-11-083-784-266332
; Sequence 266332, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266332
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266332

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.4e+02;
Matches 17; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1217 GCGCGGAGGTAGAACAGA 1235
||||| ||||| ||||| |||||
Db 1 GCGCGGAGGTAGAACAGA 19
```



RESULT 866  
US-11-083-784-266363  
; Sequence 266363, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela

RESULT 968  
US-11-101-244-1218990  
; Sequence 1218990, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmaco, Inc.  
; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1218890  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-1218890

Query Match 0.6%; Score 17.4; DB 1; Length 19;  
Best Local Similarity 57.9%; Pred. No. 8.4e+02;  
Matches 11; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY 1832 TGTACTACTCCCTGGCTAT 1850  
:|||||:|||||:|||||:  
Db 1 UGUACUACUUCUGGCUAU 19

RESULT 869  
US-11-101-244-1254149/c  
; Sequence 1254149, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1254149  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-1254149

Query Match 0.6%; Score 17.4; DB 1; Length 19;  
Best Local Similarity 94.7%; Pred. No. 8.4e+02;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1680 TTTCTGGTGGGCTGGTC 1698  
|||||||  
Db 19 TTTCTGGTGGTGGTC 1

RESULT 870  
US-11-101-244-264920  
; Sequence 264920, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 264920  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-264920

Query Match 0.6%; Score 17.4; DB 1; Length 19;  
Best Local Similarity 63.2%; Pred. No. 8.4e+02;  
Matches 12; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 1777 GCTGTGTGCTAACCATTTG 1795  
|||||:|||||:|||||:  
Db 1 GCUGGUGUGCUAACAAUUG 19

RESULT 871  
US-11-101-244-265765  
; Sequence 265765, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 265765  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-265765

Query Match 0.6%; Score 17.4; DB 1; Length 19;  
Best Local Similarity 63.2%; Pred. No. 8.4e+02;  
Matches 12; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 1344 CAACATCATCGACTTTTGTG 1362  
|||||:|||||:|||||:  
Db 1 CAACAUCAUUGACUUGUG 19

RESULT 872  
US-11-101-244-265770  
; Sequence 265770, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin

```

; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265770
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-265770

```

Query Match	0.6%	Score 17.4;	DB 1;	Length 19;
Best Local Similarity	73.7%	Pred. No. 8.4e+02;		
Matches 14: Conservative	4;	Mismatches 1;	Indels 0;	Gaps 0;

Qy 823 GAACCTGCTGCTGGATGA 841  
|||:|:|:|:|:|:|:  
pb 1 GAGCCUGCUGCUGGAUGA 19

```

RESULT 873
US-11-101-244-265811
; Sequence 265811, Application US/11101244
; Publication NO. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13498US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265811
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-265811

```

Query Match 0.6%; Score 17.4; DB 1; Length 19;  
Best Local Similarity 84.2%; Pred. No. 8.4e+02;  
Matches 16; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

**Qy** 1526 GGGCCAGCACCAACGAGTT 1544  
| | | | | | | | :  
**pB** 1 GAGCCAGCACCAACGAGUU 19

RESULT 874  
US-11-101-244-265852  
; Sequence 265852, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Kivrotova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William

```

; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265852
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-265852

```

Query Match	0.6%	Score 17.4;	DB 1;	Length 19;
Best Local Similarity	63.2%	Pred. No. 8.4e+02;		
Matches 12: Conservative		6; Mismatches 1;	Indels 0;	Gaps 0;

QY 713 CCTATGTGCTCAACTACTA 731  
|||:|:|:|:|:|:|:|:  
pb 1 CCUAGUGUCUCAAUUCUA 19

```

RESULT 875
US-11-101-244-265897
; Sequence 265897, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Kivrolods, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13490US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265897
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-265897

```

Query Match	0.6%	Score 17.4;	DB 1;	Length 19;
Best Local Similarity	73.7%	Pred. No. 8.4e+02;		
Matches 14:		4: Mismatches 1;	Indels 0;	Gaps 0;
Conservative				

QY 823 GAACCTGCTGCTGGATGA 841  
|||:|:|:|:|:|:  
Db 1 GAGCCUGCUGCUGGAUGA 19

```

RESULT 876
US-11-101-244-265937
; Sequence 265937, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen

```





```
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266166
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266166

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 78.2%; Pred. No. 8.4e+02;
Matches 15; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1652 ACACGACTTCAGACAT 1670
      ||||| |::|||::|:
Db 1 ACACCUACUCAAAGAACU 19

RESULT 881
US-11-101-244-266172
; Sequence 266172, Application US/11/101,244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266172
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266172

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 8.4e+02;
Matches 12; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 1343 TCAACATCATCGACTTGT 1361
      :|||::|:|:|:|:|:|:
Db 1 UCAACAUCUACGACUGUGU 19

RESULT 882
US-11-101-244-266203
; Sequence 266203, Application US/11/101,244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07

; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266203
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266203

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 8.4e+02;
Matches 16; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2448 GCACAAGACTGGTGGAAAA 2466
      ||||| |::|||::|:
Db 1 GCACAGGACUGGUGGAAAA 19

RESULT 883
US-11-101-244-266225
; Sequence 266225, Application US/11/101,244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266225
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266225

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 8.4e+02;
Matches 15; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1643 GCAATGACCACACCGACTT 1661
      ||||| |::|||::|:
Db 1 GURAUACCACACCGACUU 19

RESULT 884
US-11-101-244-266227
; Sequence 266227, Application US/11/101,244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
```

```
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266227
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266227
```

```
Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 8.4e+02;
Matches 13; Conservative 5; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 713 CCTATGTGCTCAACTACTA 731
|||:|:|:|:|:|:|:|:|:|:|:|
Db 1 CCUACGUGCUCACUACUA 19
```

## RESULT 885

```
US-11-101-244-266230
; Sequence 266230, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266230
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266230
```

```
Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1868 CCAGAAACGGAAGACCA 1886
|||:|:|:|:|:|:|:|:|:|:|:|
Db 1 CCAGAAACGGAAGACCA 19
```

## RESULT 886

```
US-11-101-244-266244
; Sequence 266244, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
```

```
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266244
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266244
```

```
Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 8.4e+02;
Matches 15; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1985 GCGAAGAGGGTATGTCGA 2003
|||:|:|:|:|:|:|:|:|:|:|:|
Db 1 GCGAAGAGGGUAGUACGA 19
```

## RESULT 887

```
US-11-101-244-266248
; Sequence 266248, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266248
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266248
```

```
Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.4e+02;
Matches 17; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1217 GCGGAGGAGTAGAACACA 1235
|||:|:|:|:|:|:|:|:|:|:|:|
Db 1 GCGGAGGAGUAGACACA 19
```

## RESULT 888

```
US-11-101-244-266255
; Sequence 266255, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
```

```
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266255
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266255

Query Match
Best Local Similarity 0.6%; Score 17.4; DB 1; Length 19;
Matches 12; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 1537 AACGAGTTCTCTGCTGCTTA 1555
DB 1 AAUGAGUCCUGCGCUAA 19

RESULT 889
US-11-101-244-266267
; Sequence 266267, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 134990S
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266267
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266267

Query Match
Best Local Similarity 0.6%; Score 17.4; DB 1; Length 19;
Matches 12; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 2328 GTCCTCACCCCTCTCTTAGA 2346
DB 1 GUCCUCACCCUCUCUAAA 19

RESULT 890
US-11-101-244-266268
; Sequence 266268, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 134990S
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266268
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266268

Query Match
Best Local Similarity 0.6%; Score 17.4; DB 1; Length 19;
Matches 15; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 2309 CAACTATGCCCATGCTGAA 2327
DB 1 CAACUAUGCCCGAGCUGAA 19

RESULT 891
US-11-101-244-266270
; Sequence 266270, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 134990S
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266270
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266270

Query Match
Best Local Similarity 0.6%; Score 17.4; DB 1; Length 19;
Matches 14; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1394 TGAGTGGCTGTCTATCCAA 1412
DB 1 UGAGCGGCCUGUCAUCAA 19

RESULT 892
US-11-101-244-266281
; Sequence 266281, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 134990S
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266281
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266281
```

```
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266310
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266281

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 8.4e+02;
Matches 16; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1527 GCCAGCACCACGAGTTC 1545
Db 1 GCCAGCACCACCAUGAGUUC 19

RESULT 893
US-11-101-244-266284
; Sequence 266284, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266284
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266284

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 8.4e+02;
Matches 16; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2382 GCCAGAGGCTTAGGAAAC 2400
Db 1 GCCAGAGGCTUAGGAAAC 19

RESULT 894
US-11-101-244-266310
; Sequence 266310, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary

; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266310
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266310

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 8.4e+02;
Matches 15; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1643 GCAATGACCACACCGACTT 1661
Db 1 GUAUGACCACACCGACUUC 19

RESULT 895
US-11-101-244-266312
; Sequence 266312, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266312
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266312

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 8.4e+02;
Matches 13; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 713 CCTATGCTCAACTACTA 731
Db 1 CCUACGUGCUCAACUACUA 19

RESULT 896
US-11-101-244-266316
; Sequence 266316, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
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; SEQ ID NO 266316
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266316

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 94.7%; Pred. No. 8.4e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1868 CCAAGAAACGGAAGAAGCA 1886
      ||||| ||||| ||||| |||||
Db 1 CCAAGAAACGGAAGAAGCA 19

RESULT 897
US-11-101-244-266326
; Sequence 266326, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266326
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266326

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 8.4e+02;
Matches 15; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1985 GCGAAGAGGGTATGTCGA 2003
      ||||| ||||| ||||| |||||
Db 1 GCGAAGAGGGUUAUGCA 19

RESULT 898
US-11-101-244-266328
; Sequence 266328, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266328
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```
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266328

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 8.4e+02;
Matches 17; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1217 GCGGGAGGTAGAAACAGA 1235
      ||||| ||||| ||||| |||||
Db 1 GCGGGAGGUAGAGACAGA 19

RESULT 899
US-11-101-244-266332
; Sequence 266332, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266332
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266332

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 8.4e+02;
Matches 12; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 1537 AACGAGTTCCTGCTGCTTA 1555
      ||||| ||||| ||||| |||||
Db 1 AAUGAGUUCUGCUGCUUA 19

RESULT 900
US-11-101-244-266338
; Sequence 266338, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266338
; LENGTH: 19
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; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266338

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 73.2%; Pred. No. 8.4e+02;
Matches 14; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1394 TGAGTGGCTGTGTCATCCAA 1412
    :|||:|||:|||:|||
Db 1 UGAGCGCGCUGCAUCA 19

RESULT 901
US-11-101-244-266344
; Sequence 266344, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266344
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266344

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 8.4e+02;
Matches 16; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1527 GGCCAGCACCAACGAGTTC 1545
    |||||:|||:|||:|||
Db 1 GGCCAGCACCAAGAGUUC 19

RESULT 902
US-11-101-244-266353
; Sequence 266353, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266353
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266353

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 8.4e+02;
Matches 12; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 1586 TTGCCACCATGATCTATT 1604
    :|||:|||:|||:|||
Db 1 UUGCCACCAUGAUCUACUA 19

RESULT 903
US-11-101-244-266361
; Sequence 266361, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266361
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266361

Query Match          0.6%; Score 17.4; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 8.4e+02;
Matches 13; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 1034 GAATGTGGCGCTCTTCGA 1052
    |||:|||:|||:|||
Db 1 GCAUGUGGCGCUCUUCGA 19

RESULT 904
US-11-101-244-266362
; Sequence 266362, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266362
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266362
```

US-11-101-244-266362

Query Match 0.6%; Score 17.4; DB 1; Length 19;  
Best Local Similarity 78.9%; Pred. No. 8.4e+02;  
Matches 15; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1993 GGATGTCGAGAGGAAC 2011

Db 1 GGUUGAUCGAGGAAAC 19

RESULT 905

US-11-101-244-266363

; Sequence 266363, Application US/11101244

; Publication No. US20050246794A1

; GENERAL INFORMATION:

; APPLICANT: Dharmoon, Inc.

; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/101,244

; CURRENT FILING DATE: 2005-04-07

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 266363

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

US-11-101-244-266363

Query Match 0.6%; Score 17.4; DB 1; Length 19;  
Best Local Similarity 68.4%; Pred. No. 8.4e+02;  
Matches 13; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 1916 CCATTACTCAAGTCTGA 1934

Db 1 CCAUGAUCGACGAGUCUGA 19

RESULT 906

US-10-310-914A-1013265

; Sequence 1013265, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuizat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: Patentin version 3.3

; SEQ ID NO 1013265

; LENGTH: 20

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-1013265

Query Match 0.6%; Score 17.4; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 9.7e+02;  
Matches 16; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGTGGGGG 224

||||| :|||||:|||||

Db 2 GGGGUGGUGGGUGGGGG 20

RESULT 907

US-10-310-914A-1016297/c

; Sequence 1016297, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuizat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: Patentin version 3.3

; SEQ ID NO 1016297

; LENGTH: 20

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-1016297

Query Match 0.6%; Score 17.4; DB 1; Length 20;  
Best Local Similarity 94.7%; Pred. No. 9.7e+02;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 654 CAGCAGCGCGCGCGGG 672

Db 20 CAGCGCGCGCGCGGG 2

RESULT 908

US-10-310-914A-1040123

; Sequence 1040123, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuizat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: Patentin version 3.3

; SEQ ID NO 1040123

; LENGTH: 20

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-1040123

Query Match 0.6%; Score 17.4; DB 1; Length 20;  
Best Local Similarity 89.5%; Pred. No. 9.7e+02;  
Matches 17; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 214 GGGTGGGCGGAGGCGAGG 232

Db 2 GGGGUGGAGGAGGCGAGG 20

RESULT 909

US-10-310-914A-112733

; Sequence 112733, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuizat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06



; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 112733  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-112733

Query Match 0.6%; Score 17.4; DB 1; Length 20;  
Best Local Similarity 94.7%; Pred. No. 9.7e+02;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 654 CAGCAGCGCGCGCGCGG 672  
DB 1 CCGCAGCGCGCGCGCGG 19

RESULT 910  
US-10-310-914A-122958  
; Sequence 122958, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 122958  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-122958

Query Match 0.6%; Score 17.4; DB 1; Length 20;  
Best Local Similarity 94.7%; Pred. No. 9.7e+02;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGCGCGCGCGCGGCGTG 677  
DB 1 GCGCGCGCGCGCGGCGG 19

RESULT 911  
US-10-310-914A-170668  
; Sequence 170668, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 170668  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-170668

Query Match 0.6%; Score 17.4; DB 1; Length 20;  
Best Local Similarity 89.5%; Pred. No. 9.7e+02;  
Matches 17; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGCGCGCGCGGCGGCTG 677  
DB 1 GCGCGCGCGCGGCGGCG 19

RESULT 912  
US-10-310-914A-202986  
; Sequence 202986, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 202986  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-202986

Query Match 0.6%; Score 17.4; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 9.7e+02;  
Matches 16; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAG 227  
DB 2 GGGGUGGGGUGGGUGGAG 20

RESULT 913  
US-10-310-914A-228946  
; Sequence 228946, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 228946  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-228946

Query Match 0.6%; Score 17.4; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 9.7e+02;  
Matches 16; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGTGGGGGGG 224  
DB 1 GGGAGGGGUGGGUGGGGG 19

RESULT 914  
US-10-310-914A-301506/c  
; Sequence 301506, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402



; SEQ ID NO 390901  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-390901

Query Match 0.6%; Score 17.4; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 9.7e+02;  
Matches 16; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGG 224  
|||:||||:|||||  
Db 2 GGUGGGUGGGUGGGGG 20

## RESULT 920

US-10-310-914A-437045  
; Sequence 437045, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 437045  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-437045

Query Match 0.6%; Score 17.4; DB 1; Length 20;  
Best Local Similarity 94.7%; Pred. No. 9.7e+02;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 654 CAGCGCGCGCGCGGGG 672  
|||||:|||||:|||||  
Db 1 CAGCGCGCGCGCGGGG 19

## RESULT 921

US-10-310-914A-471418  
; Sequence 471418, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 471418  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-471418

Query Match 0.6%; Score 17.4; DB 1; Length 20;  
Best Local Similarity 68.4%; Pred. No. 9.7e+02;  
Matches 13; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 287 ACCACTCTCTCTCTTCT 305  
|||||:|||||:|||||  
Db 1 ACCACTCTCTCTCTTCT 19

## RESULT 922

US-10-310-914A-486074  
; Sequence 486074, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 486074  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-486074

Query Match 0.6%; Score 17.4; DB 1; Length 20;  
Best Local Similarity 63.2%; Pred. No. 9.7e+02;  
Matches 12; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 287 ACCACTCTCTCTCTTCT 305  
|||||:|||||:|||||  
Db 1 ACCACTCTCTCTCTTCT 19

## RESULT 923

US-10-310-914A-504153  
; Sequence 504153, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 504153  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-504153

Query Match 0.6%; Score 17.4; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 9.7e+02;  
Matches 16; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 660 CGCGCGCGCGGGGCTGT 678  
|||||:|||||:|||||  
Db 1 CGCGCGCGCGGGGCTGT 19

## RESULT 924

US-10-310-914A-538024  
; Sequence 538024, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 538024

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; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-538024

Query Match          0.6%; Score 17.4; DB 1; Length 20;
Best Local Similarity 84.2%; Pred. No. 9.7e+02;
Matches 16; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 213 TGGGGTGGGGGAGGAGCAG 231
      :|||:|||||:|||||
Db 1 UGGGUGGGGGCAGGCAG 19

RESULT 925
US-10-310-914A-548423
; Sequence 548423, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 548423
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-548423

Query Match          0.6%; Score 17.4; DB 1; Length 20;
Best Local Similarity 84.2%; Pred. No. 9.7e+02;
Matches 16; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 210 GGCTGGGTGGGGGAGG 228
      |||:|||||:|||||
Db 1 GGGUGGGUGGGGAGG 19

RESULT 926
US-10-310-914A-649505/c
; Sequence 649505, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 649505
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-649505

Query Match          0.6%; Score 17.4; DB 1; Length 20;
Best Local Similarity 94.7%; Pred. No. 9.7e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGAG 227
      |||:|||||:|||||
Db 19 GGGGTGGGTGGGGTGGAG 1

RESULT 927
US-10-310-914A-77009/c
; Sequence 77009, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 77009
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-77009/c

Query Match          0.6%; Score 17.4; DB 1; Length 20;
Best Local Similarity 89.5%; Pred. No. 9.7e+02;
Matches 17; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 487 GCCAAGGGCAGGCGTCGG 505
      |||:|||||:|||||
Db 2 GCCAAGGGCAGGCGGCGG 20

RESULT 929
US-10-310-914A-751775
; Sequence 751775, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 751775
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-751775

Query Match          0.6%; Score 17.4; DB 1; Length 20;
Best Local Similarity 94.7%; Pred. No. 9.7e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 208 GGGGGTGGGGTGGGGGGA 226
      |||:|||||:|||||
Db 19 GGGGGTGGGGTGGGGGGA 1

RESULT 928
US-10-310-914A-751775
; Sequence 751775, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 751775
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-751775

Query Match          0.6%; Score 17.4; DB 1; Length 20;
Best Local Similarity 94.7%; Pred. No. 9.7e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 208 GGGGGTGGGGTGGGGGGA 226
      |||:|||||:|||||
Db 19 GGGGGTGGGGTGGGGGGA 1
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; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-77009

Query Match          0.6%; Score 17.4; DB 1; Length 20;
Best Local Similarity 94.7%; Pred. No. 9.7e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2749 AGCTGGGTGCTCCAGGCT 2767
      |||||
Db 19 AGCTGGGTGCTCCAGCCT 1

RESULT 930
US-10-310-914A-804906/c
; Sequence 804906, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 804906
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-804906

Query Match          0.6%; Score 17.4; DB 1; Length 20;
Best Local Similarity 94.7%; Pred. No. 9.7e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1535 CCAACGAGTTCCTGTGCT 1553
      |||||
Db 20 CCAACGAGTTCCTGTGCT 2

RESULT 931
US-10-310-914A-88900/c
; Sequence 88900, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 88900
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-88900

Query Match          0.6%; Score 17.4; DB 1; Length 20;
Best Local Similarity 94.7%; Pred. No. 9.7e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 270 CTGCCTCTCTCTCTCCAC 288
      |||||
Db 20 CTGCCTCTCTCTCTCTCT 2

RESULT 932
US-10-310-914A-939659/c
; Sequence 939659, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 939659
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-939659

Query Match          0.6%; Score 17.4; DB 1; Length 20;
Best Local Similarity 94.7%; Pred. No. 9.7e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGGG 674
      |||||
Db 20 GCAGCGCGCGCGCGGG 2

RESULT 933
US-10-310-914A-1002772
; Sequence 1002772, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1002772
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1002772

Query Match          0.6%; Score 17.4; DB 1; Length 21;
Best Local Similarity 84.2%; Pred. No. 1.1e+03;
Matches 16; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 205 CGGGGGGTGGGGTGGGG 223
      |||||
Db 1 CGGGGGGAUGGGGUGGGG 19

RESULT 934
US-10-310-914A-104979
; Sequence 104979, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 104979
; LENGTH: 21
; TYPE: RNA
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US-10-310-914A-1263730

Query Match 0.6%; Score 17.4; DB 1; Length 21;  
Best Local Similarity 94.7%; Pred. No. 1.1e+03;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 288 CCACCTCTCTCTCTCTCTC 306  
DB 20 CCTCTCTCTCTCTCTCTC 2

RESULT 940

US-10-310-914A-1319148/c  
; Sequence 1319148, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 1319148

; LENGTH: 21

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-1319148

Query Match

Best Local Similarity 0.6%; Score 17.4; DB 1; Length 21;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 288 CCACCTCTCTCTCTCTCTC 306  
DB 20 CCTCTCTCTCTCTCTCTC 2

RESULT 941

US-10-310-914A-1330678/c

; Sequence 1330678, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 1330678

; LENGTH: 21

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-1330678

Query Match

Best Local Similarity 0.6%; Score 17.4; DB 1; Length 21;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 647 GCAGCGGCAGCAGCGCGG 665  
DB 19 GCAGCGGCAGCAGCGCGG 1

RESULT 942

US-10-310-914A-169363/c

; Sequence 169363, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 169363

; LENGTH: 21

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-169363

Query Match

Best Local Similarity 0.6%; Score 17.4; DB 1; Length 21;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGGCAGCAGCGGG 674  
DB 21 GCGGCGGCGGCGGCGGG 3

RESULT 943

US-10-310-914A-186941/c

; Sequence 186941, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 186941

; LENGTH: 21

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-186941

Query Match

Best Local Similarity 0.6%; Score 17.4; DB 1; Length 21;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 207 GCGGCGTGGGTGGGGGG 225  
DB 21 GCGGCGTGGGTGGGGGG 3

RESULT 944

US-10-310-914A-318785/c

; Sequence 318785, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 318785

; LENGTH: 21

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-318785

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Query Match          0.6%; Score 17.4; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+03;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 658 AGCGCGCGCGCGCGGGCT 676
    |||||
Db 21 AGCGCGCGCGCGCGGGCT 3

RESULT 945
US-10-310-914A-346557/c
; Sequence 346557, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 346557
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-346557

Query Match          0.6%; Score 17.4; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+03;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGGG 668
    |||||
Db 21 GCAGCAGCAGCGCGCGGG 3

RESULT 946
US-10-310-914A-351160
; Sequence 351160, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 351160
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-351160

Query Match          0.6%; Score 17.4; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+03;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGGGG 674
    |||||
Db 1 GCAGCGCGCGCGCGGG 19

RESULT 947
US-10-310-914A-351186
; Sequence 351186, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
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; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 351186
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-351186

Query Match          0.6%; Score 17.4; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+03;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGGGG 674
    |||||
Db 3 GCAGCGCGCGCGCGGG 21

RESULT 948
US-10-310-914A-437029
; Sequence 437029, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 437029
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-437029

Query Match          0.6%; Score 17.4; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+03;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 654 CAGCAGCGCGCGCGGG 672
    |||||
Db 2 CAGCGCGCGCGCGGG 20

RESULT 949
US-10-310-914A-483985/c
; Sequence 483985, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 483985
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-483985
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Query Match          0.6%; Score 17.4; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+03;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGCGG 671
Db 19 GCAGCGCGCGCGCGCGCGG 1

RESULT 950
US-10-310-914A-486063
; Sequence 486063, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 486063
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-486063

Query Match          0.6%; Score 17.4; DB 1; Length 21;
Best Local Similarity 63.2%; Pred. No. 1.1e+03;
Matches 12; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 287 ACCACCTCTCTCTCTCTCT 305
Db 2 ACCUCCUCCUCCUCCUCCU 20

RESULT 951
US-10-310-914A-540539/c
; Sequence 540539, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 540539
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-540539

Query Match          0.6%; Score 17.4; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+03;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 643 GGCAGCAGCGCGCAGCAGCG 661
Db 19 GGCAGCAGCGCGCAGCAGAG 1

RESULT 952
US-10-310-914A-719014/c
; Sequence 719014, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
```

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; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 719014
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-719014

Query Match          0.6%; Score 17.4; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+03;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 655 AGCAGCGCGCGCGCGCGG 673
Db 19 AGCAGCGCGCGCGCGCGG 1

RESULT 953
US-10-310-914A-751776
; Sequence 751776, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 751776
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-751776

Query Match          0.6%; Score 17.4; DB 1; Length 21;
Best Local Similarity 89.5%; Pred. No. 1.1e+03;
Matches 17; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 487 GCCAAGCGCGCGCGCTCGG 505
Db 2 GCCAAGCGCGCGCGCGCGG 20

RESULT 954
US-10-310-914A-763008/c
; Sequence 763008, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 763008
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-763008

Query Match          0.6%; Score 17.4; DB 1; Length 21;
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; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 969344
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-969344

Query Match          0.6%; Score 17.4; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+03;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 268 TCTGCTCTCTCTCTCTCC 286
      |||||||
Db 21 TGCTGCTCTCTCTCTCTCC 3

RESULT 955
US-10-310-914A-789187/c
; Sequence 789187, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 789187
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-789187

Query Match          0.6%; Score 17.4; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+03;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 647 GCAGCGCGCAGCAGCGCGG 665
      |||||||
Db 20 GCAGCGGCTGCAGCGCGG 2

RESULT 956
US-10-310-914A-889438/c
; Sequence 889438, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 889438
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-889438

Query Match          0.6%; Score 17.4; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+03;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGCGG 671
      |||||||
Db 19 GCAGCAGCGCGCGCGCGG 1

RESULT 957
US-10-310-914A-969344/c
; Sequence 969344, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
```

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; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 969344
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-969344

Query Match          0.6%; Score 17.4; DB 1; Length 21;
Best Local Similarity 94.7%; Pred. No. 1.1e+03;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGCGG 674
      |||||||
Db 21 GCGCGCGCGCGCGCGG 3

RESULT 958
US-10-770-726-9106
; Sequence 9106, Application US/10770726
; Publication No. US20050266409A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING, PREVENTING, AND TREATING
; TITLE OF INVENTION: CANCERS
; FILE REFERENCE: AM101079 (031896-010000)
; CURRENT APPLICATION NUMBER: US/10/770,726
; CURRENT FILING DATE: 2004-02-04
; NUMBER OF SEQ ID NOS: 48640
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 9106
; LENGTH: 21
; TYPE: RNA
; ORGANISM: RNAi
US-10-770-726-9106

Query Match          0.6%; Score 17.4; DB 1; Length 21;
Best Local Similarity 57.9%; Pred. No. 1.1e+03;
Matches 11; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY 291 CCTCTCTCTCTCTCTCGTC 309
      ||:|:|:|:|:|:|:|:|:|
Db 3 CCUCCUCCUCCUCCUCCUC 21

RESULT 959
US-10-770-726-9127
; Sequence 9127, Application US/10770726
; Publication No. US20050266409A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING, PREVENTING, AND TREATING
; TITLE OF INVENTION: CANCERS
; FILE REFERENCE: AM101079 (031896-010000)
; CURRENT APPLICATION NUMBER: US/10/770,726
; CURRENT FILING DATE: 2004-02-04
; NUMBER OF SEQ ID NOS: 48640
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 9127
; LENGTH: 21
; TYPE: RNA
; ORGANISM: RNAi
US-10-770-726-9127
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Query Match          0.6%; Score 17.4; DB 1; Length 21;
Best Local Similarity 63.2%; Pred. No. 1.1e+03;
Matches 12; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 288 CCACCTCTCTCTCTCTC 306
   |||||:|:|:|:|:|:|
Db 3 CCUCCUCCUCCUCCUUC 21

RESULT 960
US-10-310-914A-1326881/c
; Sequence 1326881, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1326881
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1326881

Query Match          0.6%; Score 17; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 8.2e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 652 GCAGCAGCGCGCGCGG 668
   |||||:|:|:|:|:|
Db 17 GCAGCAGCGCGCGCGG 1

RESULT 961
US-10-310-914A-186965/c
; Sequence 186965, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 186965
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-186965

Query Match          0.6%; Score 17; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 8.2e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 209 GGGGTGGGGTGGGGGG 225
   |||||:|:|:|:|:|
Db 17 GGGGTGGGGTGGGGGG 1

RESULT 962
US-10-310-914A-231731/c
; Sequence 231731, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
```

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; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 231731
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-231731

Query Match          0.6%; Score 17; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 8.2e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 286 CACCACCTCTCTCTCT 302
   |||||:|:|:|:|:|
Db 18 CACCACCTCTCTCTCT 2

RESULT 963
US-10-310-914A-339221
; Sequence 339221, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 339221
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-339221

Query Match          0.6%; Score 17; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 8.2e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGC 669
   |||||:|:~|:|:|:|
Db 2 GCAGCAGCGCGCGCGC 18

RESULT 964
US-10-310-914A-339950
; Sequence 339950, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 339950
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-339950

Query Match          0.6%; Score 17; DB 1; Length 18;
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```
Best Local Similarity 100.0%; Pred. No. 8.2e+02; Indels 0; Gaps 0;
Matches 17; Conservative 0; Mismatches 0;

QY 653 GCAGCAGCGCGCGCGC 669
    |||||
Db 2 GCAGCAGCGCGCGCGC 18

RESULT 965
US-10-310-914A-445699
; Sequence 445699, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 445699
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-445699

Query Match 0.6%; Score 17; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 8.2e+02; Indels 0; Gaps 0;
Matches 17; Conservative 0; Mismatches 0;

QY 208 GCGGGTGGGTGGGGG 224
    |||||
Db 17 GCGGGTGGGTGGGGG 1

RESULT 966
US-10-310-914A-711650/c
; Sequence 711650, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 711650
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-711650

Query Match 0.6%; Score 17; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 8.2e+02; Indels 0; Gaps 0;
Matches 17; Conservative 0; Mismatches 0;

QY 207 GCGGGTGGGTGGGGG 223
    |||||
Db 2 GCGGGTGGGTGGGGG 18

RESULT 966
US-10-310-914A-649080/c
; Sequence 649080, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 649080
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-649080

Query Match 0.6%; Score 17; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 8.2e+02; Indels 0; Gaps 0;
Matches 17; Conservative 0; Mismatches 0;

QY 655 AGCAGCGCGCGCGCGG 671
    |||||
Db 17 AGCAGCGCGCGCGCGG 1

RESULT 967
US-10-310-914A-711565/c
; Sequence 711565, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
```

```
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCAGC 660
    |||||
Db 3 GCAGCAGCGCGCAGC 19

RESULT 970
US-10-310-914A-104978
; Sequence 104978, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 104978
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-104978

Query Match 0.6%; Score 17; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 9.5e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 652 GCAGCAGCGCGCGCG 668
    |||||
Db 2 GCAGCAGCGCGCGCG 18

RESULT 971
US-10-310-914A-112738
; Sequence 112738, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 112738
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-112738

Query Match 0.6%; Score 17; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 9.5e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGG 672
    |||||
Db 1 GCAGCGCGCGCGCGG 17

RESULT 972
US-10-310-914A-186966/c
; Sequence 186966, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
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; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 186966
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-186966

Query Match 0.6%; Score 17; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 9.5e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGG 225
    |||||
Db 18 GGGGTGGGTGGGGG 2

RESULT 973
US-10-310-914A-197850/c
; Sequence 197850, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 197850
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-197850

Query Match 0.6%; Score 17; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 9.5e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 206 GGGGGGGGTGGGG 222
    |||||
Db 18 GGGGGGGGTGGGG 2

RESULT 974
US-10-310-914A-870707
; Sequence 870707, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 870707
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-870707

Query Match 0.6%; Score 17; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 9.5e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

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QY 654 CAGCAGCGCGCGCGCGG 670
Db 2 CAGCAGCGCGCGCGCGG 18

RESULT 975
US-10-310-914A-964711/c
; Sequence 964711, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kyzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 964711
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-964711

Query Match 0.6%; Score 17; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 9.5e+02;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1355 ACTTTGTGGCCATCTTG 1371
Db 19 ACTTTGTGGCCATCTTG 3

RESULT 976
US-11-083-784-266200
; Sequence 266200, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266200
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266200

Query Match 0.6%; Score 17; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 9.5e+02;
Matches 16; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2280 ACAGAGACCTGCCAAGA 2296
Db 3 ACAGAGACCTGCCAAGA 19
```

```
RESULT 977
US-11-083-784-266261
; Sequence 266261, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266261
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266261

Query Match 0.6%; Score 17; DB 1; Length 19;
Best Local Similarity 52.9%; Pred. No. 9.5e+02;
Matches 9; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

QY 2576 TATACTCTTGCTGTAG 2592
Db 3 UAUACUCUGUGUGUAG 19

RESULT 978
US-11-083-784-266277
; Sequence 266277, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266277
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266277

Query Match 0.6%; Score 17; DB 1; Length 19;
Best Local Similarity 58.8%; Pred. No. 9.5e+02;
Matches 10; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 2434 AGATATCCTTGTGTGCA 2450
Db 3 AGATATCCTTGTGTGCA 19
```

Dbb 3 AGAUUCCUUGUUGCA 19

RESULT 979  
US-11-101-244-266200  
; Sequence 266200, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 266200  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-266200

Query Match 0.6%; Score 17; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 9.5e+02;  
Matches 16; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2280 ACAGAGACCTGCCAAGA 2296  
|||||:|||||  
Db 3 ACAGAGACCUGCCAAGA 19

RESULT 980  
US-11-101-244-266261  
; Sequence 266261, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 266261  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-266261

Query Match 0.6%; Score 17; DB 1; Length 19;  
Best Local Similarity 52.9%; Pred. No. 9.5e+02;  
Matches 9; Conservative 8; Mismatches 0; Indels 0; Gaps 0;

QY 2576 TATATCTTGCTGAG 2592  
:|:|:|:|:|:|:|:|:|  
Db 3 UAUACUCUUGUGUAG 19

RESULT 981  
US-11-101-244-266277  
; Sequence 266277, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 266277  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-266277

Query Match 0.6%; Score 17; DB 1; Length 19;  
Best Local Similarity 58.8%; Pred. No. 9.5e+02;  
Matches 10; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 2434 AGATATCCTGTTTCCA 2450  
|||:|:|:|:|:|:|  
Db 3 AGAUUCCUUGUUGCA 19

RESULT 982  
US-10-310-914A-1041692/c  
; Sequence 1041692, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuizat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CFUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1041692  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1041692

Query Match 0.6%; Score 17; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 1.1e+03;  
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 208 GGGGGTGGGGTGGGGG 224  
|||||:|||||  
Db 20 GGGGGTGGGGTGGGGG 4

RESULT 983  
US-10-310-914A-186940/c  
; Sequence 186940, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac

```

; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 186940
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-186940

Query Match          0.6%; Score 17; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGG 225
      |||||
Db 19 GGGGTGGGTGGGGGG 3

RESULT 984
US-10-310-914A-221996/c
; Sequence 221996, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 221996
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-221996

Query Match          0.6%; Score 17; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 305 TCGTCTCTCCCTCCCTCC 321
      |||||
Db 17 TCGTCTCTCCCTCCCTCC 1

RESULT 985
US-10-310-914A-197851/c
; Sequence 197851, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 197851
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-197851

Query Match          0.6%; Score 17; DB 1; Length 21;

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```

Best Local Similarity 100.0%; Pred. No. 1.2e+03;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 206 GGGGGGTGGGTGGGG 222
      |||||
Db 18 GGGGGGTGGGTGGGG 2

```

## RESULT 986

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US-10-310-914A-229848
; Sequence 229848, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:

```

```

; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 229848
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-229848

Query Match          0.6%; Score 17; DB 1; Length 21;
Best Local Similarity 76.5%; Pred. No. 1.2e+03;
Matches 13; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

```

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QY 777 CTTTGAGGAAGACTCA 793
      |:::|
Db 1 CUUGAGGAAGAGCUCA 17

```

## RESULT 987

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US-10-310-914A-915374/c
; Sequence 915374, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:

```

```

; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 915374
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-915374

Query Match          0.6%; Score 17; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 1.2e+03;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 223 GGGAGGCAGGGCAGAG 239
      |||||
Db 21 GGGAGGCAGGGCAGAG 5

```

## RESULT 988

```

US-10-310-914A-100323
; Sequence 100323, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:

```

```

; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat

```



```
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 100323
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-100323

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669
Db 1 GCGGCAGCAGCGCGCGCGC 20

RESULT 989
US-10-310-914A-100324
; Sequence 100324, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 100324
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-100324

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669
Db 1 GCGGCAGCAGCGCGCGCGC 20

RESULT 990
US-10-310-914A-1008713
; Sequence 1008713, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1008713
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1008713

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
```

```
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669
Db 1 GCGGCAGCAGCGCGCGCGC 20

RESULT 991
US-10-310-914A-1008714
; Sequence 1008714, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1008714
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1008714

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669
Db 1 GCGGCAGCAGCGCGCGCGC 20

RESULT 992
US-10-310-914A-1008715
; Sequence 1008715, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1008715
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1008715

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669
Db 1 GCGGCAGCAGCGCGCGCGC 20

RESULT 993
US-10-310-914A-1008717
; Sequence 1008717, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
```

```

; TITLE OF INVENTION:  uses thereof
; FILE REFERENCE: 06087.0200 CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1008717
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1008717

```

Query Match	0.6%	Score 16.8;	DB 1;	Length 20;
Best Local Similarity	85.0%	Pred. No. 1.2e+03;		
Matches 17;	Conservative	1;	Mismatches 2;	Indels 0;
Gaps	0;			

Qy 659 GCGGCGGCGCGGGGCTGT 678  
Db 1 GCGGCGGCGCGGGCGGU 20

RESULT 994  
US-10-310-914A-1008722  
; Sequence 1008722, Application US/10310914A  
; Publication No. US20060003322A1

Query Match	Score 16.8;	DB 1;	Length 20;
Best Local Similarity	90.0%;	Pred. No. 1.2e+03;	
Matches 18;	Conservative	0;	Mismatches 2;
	Indels	0;	Gaps 0;

**Qy**           652 GGCAGCAGCGGCGGCCGG 671  
              ||| | ||| ||| ||| |||  
**pB**           1 GGCGGCGGCGGCGGCCGG 20

RESULT 995  
US-10-310-914A-1008723  
; Sequence 1008723, Application US/10310914A  
: Publication No. US20060003322A1

Query Match	0.6%	Score 16.8;	DB 1;	Length 20;
Best Local Similarity	90.0%;	Pred. No. 1.2e+03;		
Matches 18:	Conservative	0:	Mismatches 2:	Indels 0:
	Gaps 0:			

**Qy** 652 GGCAGCAGCGGCGGCCG 671  
||| ||| ||| ||| ||| ||| |||  
**Db** 1 GGCGGCGGCGGCGGCCG 20

```

RESULT 996
US-10-310-914A-1010113
; Sequence 1010113, Application US/10310914A
; Publication No. US2006000322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvaat
; TITLE OF INVENTION: Bioinformatically deter
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1010113
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1010113

```

Query Match	0.6%	Score 16.8;	DB 1;	Length 20;
Best Local Similarity	90.0%	Pred. No. 1.2e+03;		
Matches 18:	Conservative	0;	Mismatches 2;	Indels 0;
	Conservative	0;		Gaps 0;

QY  
655 AGCAGCGGCGGGCGGGG 674

nb  
1 AGCGGCGGCGGGCGGGG 20

RESULT 997  
US-10-310-914A-1013233  
; Sequence 1013233, Application US/10310914A  
; Publication No. US20060003322A1

Query Match	0.6%	Score 16.8;	DB 1;	Length 20;
Best Local Similarity	80.0%;	Pred. NO. 1.2e+03;		
Matches	16:	Conservative	2:	Mismatches 2;
				Indels 0;
				Gaps 0

QY	212	GTGGGTGGGGGGAGGCAG	231
		:    :	
pb	1	GUAGGTCGGGGGAGGCAG	20

RESULT 998  
US-10-310-914A-1016269/c  
; Sequence 1016269, Application US/10310914A  
; Publication NO. US20060003322A1

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1016269  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1016269

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGCGGCG 675  
DB 20 GCGGCGCGCGCGCGCGGAGC 1

## RESULT 999

US-10-310-914A-1039935  
; Sequence 1039935, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1039935  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1039935

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 85.0%; Pred. No. 1.2e+03;  
Matches 17; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 659 GCGGCGCGCGCGGCGTGT 678  
DB 1 GCGGCGCGCGCGCGCGGU 20

## RESULT 1000

US-10-310-914A-1045776/c  
; Sequence 1045776, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1045776  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1045776

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGCGGTGGGTGGGGGG 225  
DB 20 GAGGGCGTGGGTGGGGGAG 1

## RESULT 1001

US-10-310-914A-1105379  
; Sequence 1105379, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1105379  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1105379

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGGCGG 675  
DB 1 GCGGCGCGCGCGCGGUGGC 20

## RESULT 1002

US-10-310-914A-1141622/c  
; Sequence 1141622, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1141622  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1141622

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 221 GGGGAGCGCAGGGCAGGC 240  
DB 20 GAGGAGCAGGGGCGAGC 1

## RESULT 1003

US-10-310-914A-114275  
; Sequence 114275, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 114275  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-114275

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 70.0%; Pred. No. 1.2e+03;  
Matches 14; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 273 CCTCTCTCTCTCCACCACC 292  
||:|:|:|:|:|:|:|:|:|  
Db 1 CCUCCUCCUCCUCCACUCC 20

RESULT 1004  
US-10-310-914A-1170924  
; Sequence 1170924, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1170924  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1170924

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669  
||||| ||||| ||||| |||||  
Db 1 GCGGCAGCAGCGCGCGCGC 20

RESULT 1005  
US-10-310-914A-1170925  
; Sequence 1170925, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1170925  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1170925

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669

Db 1 GCGGCAGCAGCGCGCGCGC 20  
||||| ||||| ||||| |||||  
RESULT 1006  
US-10-310-914A-117100  
; Sequence 117100, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 117100  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-117100

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669  
||||| ||||| ||||| |||||  
Db 1 GCGGCAGCAGCGCGCGCGC 20

RESULT 1007  
US-10-310-914A-117101  
; Sequence 117101, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 117101  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-117101

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669  
||||| ||||| ||||| |||||  
Db 1 GCGGCAGCAGCGCGCGCGC 20

RESULT 1008  
US-10-310-914A-117103  
; Sequence 117103, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A

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; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1398402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 117103
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-117103

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Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 85.0%; Pred. NO. 1.2e+03;  
Matches 17; Conservative 1; Mismatches 2; Indels

Qy 659 GCGCGCGCGCGCGGCTGT 678  
Db 1 GCGCGCGCGCGCGCGGU 20

RESULT 1009  
US-10-310-914A-117106  
; Sequence 117106, Application US/10310914A  
; Publication No. US20060003322A1

```
Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels
```

Qy 652 GGCAGCAGCGGCGGCGG 671  
Db 1 GGCGGCGGCGGCGGCGG 20

RESULT 1010  
US-10-310-914A-1175674/c  
; Sequence 1175674, Application US/10310914A  
; Publication No. US20060003322A1

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels

QY 652 GGCAGCAGCGCGCGCGG 671

**Db** 20 GCGGCGGC GGCGGGCGG 1

```

RESULT 1011
US-10-310-914A-1179707/c
; Sequence 1179707, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Iaac
; APPLICANT: Shiler, Kruzat
; TITLE OF INVENTION: Bioinformatically deter
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1179707
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1179707

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Query Match	0.6%	Score 16.8;	DB 1;	Length 20;
Best Local Similarity	90.0%;	Pred. NO. 1.2e+03;		
Matches 18;	Conservative	0;	Mismatches 2;	Indels 0;
				Gaps 0;

**Qy**            271 TGCCTCCTCCTCCTCCACCA 290  
               |||  
**Db**            20 TGGCTCCTCCTCCTCCCCA 1

RESULT 1012  
US-10-310-914A-1183710/c  
; Sequence 1183710, Application US/10310914A  
; Publication No. US20060003322A1

Query Match	0.6%	Score 16.8;	DB 1;	Length 20;
Best Local Similarity	90.0%;	Pred. NO. 1.2e+03;		
Matches 18;	Conservative	0;	Mismatches 2;	Indels 0;
				Gaps 0;

Qy 208 GGGGTGGGTGGGGGAG 227  
||| ||||| ||||| |||||  
Db 20 GGGAGTGGGTGGGGAG 1

RESULT 1013  
US-10-310-914A-1203059/c  
; Sequence 1203059, Application US/10310914A  
; Publication No. US20060003322A1

```

/      : Bismuth, Kuzat
/ APPLICANT: Shiler, Kuzat
/
/ TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
/
/ TITLE OF INVENTION: uses thereof
/
/ FILE REFERENCE: 06087.0200.CPUS01
/
/ CURRENT APPLICATION NUMBER: US/10/310,914A
/
/ CURRENT FILING DATE: 2002-12-06
/

```

```

; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06

```

; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1203059  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1203059

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 269 CCGGCTCTCTCTCTCCAC 288  
Db 20 CCGGCTCTCTCTCTCCCC 1

## RESULT 1014

US-10-310-914A-1223997  
; Sequence 1223997, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1223997  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1223997

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 645 CAGCAGCGGCGAGCGGCG 664  
Db 1 CCGCAGCGGCGAGCGGCG 20

## RESULT 1015

US-10-310-914A-122955  
; Sequence 122955, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 122955  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-122955

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCGAGCGGCGGCGGC 669  
Db 1 GCGGCGGCGGCGGCGGC 20

## RESULT 1016

US-10-310-914A-1233421/c  
; Sequence 1233421, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1233421  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1233421

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2082 GCCCTGGCCTCGGCCCA 2101  
Db 20 GCCCTAGCCTGGGCCCA 1

## RESULT 1017

US-10-310-914A-1330331  
; Sequence 1330331, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1330331  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1330331

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 65.0%; Pred. No. 1.2e+03;  
Matches 13; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 274 CTCCTCTCTCCACCACCT 293  
Db 1 CUCCUCCUCCUCCUCCUCCU 20

## RESULT 1018

US-10-310-914A-1330332  
; Sequence 1330332, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402



; SEQ ID NO 159209  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-159209

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 366 GCGCGCCCAAGCGCGAGCC 385  
||||| ||||| ||||| |||||  
Db 1 GCGCGCCCGAGCGCGAGCC 20

## RESULT 1024

US-10-310-914A-168020  
; Sequence 168020, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 168020  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-168020

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669  
||||| ||||| ||||| |||||  
Db 1 GCGGCAGCGCGCGCGCGC 20

## RESULT 1025

US-10-310-914A-168021  
; Sequence 168021, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 168021  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-168021

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669  
||||| ||||| ||||| |||||  
Db 1 GCGGCAGCGCGCGCGCGC 20

## RESULT 1026

US-10-310-914A-168022  
; Sequence 168022, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 168022  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-168022

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669  
||||| ||||| ||||| |||||  
Db 1 GCGGCAGCGCGCGCGCGC 20

## RESULT 1027

US-10-310-914A-168023  
; Sequence 168023, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 168023  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-168023

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669  
||||| ||||| ||||| |||||  
Db 1 GCGGCAGCGCGCGCGCGC 20

## RESULT 1028

US-10-310-914A-168024  
; Sequence 168024, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 168024



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; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-168024

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669
      ||||| ||||| ||||| |||||
Db 1 GCGGCGCGCGCGCGCGCGC 20

RESULT 1029
US-10-310-914A-168025
; Sequence 168025, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 168025
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-168025

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669
      ||||| ||||| ||||| |||||
Db 1 GCGGCGCGCGCGCGCGCGC 20

RESULT 1030
US-10-310-914A-168026
; Sequence 168026, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 168026
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-168026

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669
      ||||| ||||| ||||| |||||
Db 1 GCGGCGCGCGCGCGCGCGC 20

RESULT 1031
US-10-310-914A-168026
; Sequence 168026, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 168026
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-168026

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669
      ||||| ||||| ||||| |||||
Db 1 GCGGCGCGCGCGCGCGCGC 20

RESULT 1031
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US-10-310-914A-170666
; Sequence 170666, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 170666
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-170666

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGCGCGC 675
      ||||| ||||| ||||| |||||
Db 1 GCGGCGCGCGCGCGCGGCGC 20

RESULT 1032
US-10-310-914A-177782
; Sequence 177782, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 177782
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-177782

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 65.0%; Pred. No. 1.2e+03;
Matches 13; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 274 CTCCTCTCTCTCCACCCT 293
      ||||| ||||| ||||| |||||
Db 1 CUCCUCCUCCUCCUCCUCCU 20

RESULT 1033
US-10-310-914A-177783
; Sequence 177783, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 177783
; LENGTH: 20
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Page 6

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; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-177783  
  
Query Match          0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 65.0%; Pred. No. 1.2e+03;  
Matches 13; Conservative 5; Mismatches 2; Indels 0; Gaps 0;  
  
Qy   274 CTCCTCCTTCCTCCACCACTT 293  
      |:|::||::||::||  
Db    1 CUCGCUCCUCCUCCUCCUU 20  
  
RESULT 1034  
US-10-310-914A-177784  
; Sequence 177784, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 177784  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-177784  
  
Query Match          0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 65.0%; Pred. No. 1.2e+03;  
Matches 13; Conservative 5; Mismatches 2; Indels 0; Gaps 0;  
  
Qy   274 CTCCTCCTTCCTCCACCACTT 293  
      |:|::||::||::||  
Db    1 CUCGCUCCUCCUCCUCCUU 20  
  
RESULT 1035  
US-10-310-914A-182758/c  
; Sequence 182758, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 182758  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-182758  
  
Query Match          0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
Qy   652 GGCGAGCACGGCGGC 671  
      |||||::|||||||  
Db    20 GGCGGCGGCGGCGGCGG 1  
  
RESULT 1036  
US-10-310-914A-182880  
; Sequence 182880, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Kuvzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 182880  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-182880  
  
Query Match          0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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; ORGANISM: Human
US-10-310-914A-182882

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669
      ||||| ||||| |||||
DB 1 GCGGCGGCGCGCGCGCGC 20

RESULT 1039
US-10-310-914A-186962/c
; Sequence 186962, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 186962
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-186962

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 203 CCCGGGGGGGTGGGTGGG 222
      || ||||| ||||| |||||
DB 20 CCTGGCGGGGTGGGTGGG 1

RESULT 1040
US-10-310-914A-188819
; Sequence 188819, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 188819
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-188819

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 642 AGGCAGCAGCGCAGCAGCG 661
      ||||| ||||| |||||
DB 1 AGGCAGCAGCAGCAGCAGCG 20

RESULT 1041
US-10-310-914A-191783
; Sequence 191783, Application US/10310914A

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US-10-310-914A-199647
Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GCGGGGTTGGTGGGGGGG 225
      ||||| ||||| ||||| |||||
Db 20 GCGGAGTGGGGGGGGGGG 1

RESULT 1044
US-10-310-914A-219246
; Sequence 219246, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 219246
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-219246
Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGGGGC 675
      || ||||| ||||| ||||| |||||
Db 1 GCGGCGCGCGCGCGGGGC 20

RESULT 1045
US-10-310-914A-222266/c
; Sequence 222266, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 222266
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-222266
Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGGGGC 675
      ||||| ||||| ||||| |||||
Db 20 GCAGCGCGCGCGGGCTGC 1

RESULT 1046
US-10-310-914A-226044
; Sequence 226044, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 226044
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-226044
Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGGC 669
      ||||| ||||| ||||| |||||
Db 1 GCGGCGCGCGCGCGGGGC 20

RESULT 1047
US-10-310-914A-226045
; Sequence 226045, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 226045
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-226045
Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGGC 669
      ||||| ||||| ||||| |||||
Db 1 GCGGCGCGCGCGCGGGGC 20

RESULT 1048
US-10-310-914A-226046
; Sequence 226046, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 226046
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-226046
Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGGC 669
      ||||| ||||| ||||| |||||
Db 1 GCGGCGCGCGCGCGGGGC 20
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Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669
Db 1 GCGGCGCGCGCGCGCGCGC 20

RESULT 1049
US-10-310-914A-226047
; Sequence 226047, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 226047
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-226047

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669
Db 1 GCGGCGCGCGCGCGCGCGC 20

RESULT 1050
US-10-310-914A-226048
; Sequence 226048, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 226048
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-226048

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669
Db 1 GCGGCGCGCGCGCGCGCGC 20

RESULT 1051
US-10-310-914A-226049
; Sequence 226049, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
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; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 226049
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-226049
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Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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QY 650 GCGGCAGCAGCGCGCGCGC 669
Db 1 GCGGCGCGCGCGCGCGCGC 20
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RESULT 1052
US-10-310-914A-228875
; Sequence 228875, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 228875
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-228875
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Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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QY 652 GCGCAGCAGCGCGCGCGG 671
Db 1 GCGUGCGCGCGCGCGCGG 20
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RESULT 1053
US-10-310-914A-229037/c
; Sequence 229037, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 229037
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-229037
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Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 634 GCGGTCAGGAGCAGCAGCGG 653
      ||||| ||||| ||||| |||||
Db 20 GCGGCGGAGGAGCAGCAGCGG 1

RESULT 1054
US-10-310-914A-231260/c
; Sequence 231260, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 231260
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-231260

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 285 CCACCACCTCTCTCTCTCTC 304
      || ||||| ||||| |||||
Db 20 CCGGCACCTCTCTCTCTCTC 1

RESULT 1055
US-10-310-914A-248957
; Sequence 248957, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 248957
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-248957

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 70.0%; Pred. No. 1.2e+03;
Matches 14; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 267 CTCCTGCTCTCTCTCTCTCC 286
      ||||| ||||| ||||| |||||
Db 1 CACCGGCGGAGGAGCAGCAGCGG 20

RESULT 1056
US-10-310-914A-261068
; Sequence 261068, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
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; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 261068
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-261068

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGGC 669
      ||||| ||||| ||||| |||||
Db 1 GCGGCAGCGCGCGCGCGCGGC 20

RESULT 1057
US-10-310-914A-261069
; Sequence 261069, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 261069
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-261069

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGGC 669
      ||||| ||||| ||||| |||||
Db 1 GCGGCAGCGCGCGCGCGCGGC 20

RESULT 1058
US-10-310-914A-261070
; Sequence 261070, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 261070
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-261070

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGGC 669
      ||||| ||||| ||||| |||||
Db 1 GCGGCAGCGCGCGCGCGCGGC 20
```

Best Local Similarity 90.0%; Pred. No. 1.2e+03; DB 1; Length 20;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCGGCGGCGGCGGCGG 669  
|||||  
Db 1 GCGGCGGCGGCGGCGGCGG 20

RESULT 1059  
US-10-310-914A-279154  
; Sequence 279154, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuza  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 279154  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-279154

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCAGCAGCGGCGGCGGCGG 672  
|||||  
Db 1 GCAGCAGCAGCGGCGGCGG 20

RESULT 1060  
US-10-310-914A-279859/c  
; Sequence 279859, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuza  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 279859  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-279859

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGTGGTGGTGGTGGTGGG 225  
|||||  
Db 20 GGGTGGTGGTGGTGGTGG 1

RESULT 1061  
US-10-310-914A-298810  
; Sequence 298810, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuza

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 298810  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-298810

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGCGGCGGCGGCGG 675  
|||||  
Db 1 GCGGCGGCGGCGGCGGCGG 20

RESULT 1062  
US-10-310-914A-301548/c  
; Sequence 301548, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuza  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 301548  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-301548

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGCGGCGGCGGCGG 675  
|||||  
Db 20 GCGGCGGCGGCGGCGGAGC 1

RESULT 1063  
US-10-310-914A-311517  
; Sequence 311517, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuza  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 311517  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-311517

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;





QY 650 GCGGCAGCAGCGCGCGCGC 669  
|||||  
Db 20 GCGGCAGCAGCGCGCGCGC 1

RESULT 1069  
US-10-310-914A-342470  
; Sequence 342470, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 342470  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-342470

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGCGCGC 675  
|||||  
Db 1 GCAGCGCGCGCGCGCGCAGC 20

RESULT 1070  
US-10-310-914A-346656  
; Sequence 346656, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 346656  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-346656

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669  
|||||  
Db 1 GCGGCAGCAGCGCGCGCGC 20

RESULT 1071  
US-10-310-914A-353987/c  
; Sequence 353987, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 353987  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-353987

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669  
|||||  
Db 20 GCGGCAGCAGCGCGCGCGC 1

RESULT 1072  
US-10-310-914A-368092  
; Sequence 368092, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 368092  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-368092

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669  
|||||  
Db 1 GCGGCAGCAGCGCGCGCGC 20

RESULT 1073  
US-10-310-914A-380387/c  
; Sequence 380387, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 380387  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-380387

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 647 GCAGCGGCGGCGGCGGC 666  
Db 20 GCGGCGGCGGCGGCGGC 1

## RESULT 1074

US-10-310-914A-380389/c  
; Sequence 380389, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 380389  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-380389

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCGGCGGC 663  
Db 20 GCAGCAGCGGCGGCGGC 1

## RESULT 1075

US-10-310-914A-381502/c  
; Sequence 381502, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 381502  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-381502

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCGGCGGCGGCGGC 669  
Db 20 GCAGCAGCGGCGGCGGC 1

## RESULT 1076

US-10-310-914A-381507/c  
; Sequence 381507, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 381507  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-381507

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCGGCGGCGGCGGC 669  
Db 20 GCAGCAGCGGCGGCGGC 1

## RESULT 1077

US-10-310-914A-381508/c  
; Sequence 381508, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 381508  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-381508

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCGGCGGC 663  
Db 20 GCAGCAGCGGCGGCGGC 1

## RESULT 1078

US-10-310-914A-394385  
; Sequence 394385, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 394385  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-394385

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCGGCGGCGGCGGC 669



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Db      1 CUCCUCCUCCUCCUCCUCCU 20
;
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 416101
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-416101

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      650 GCGGCAGCAGCGCGCGCGC 669
Db      1 GCGGCGCGCGCGCGCGCGC 20

RESULT 1087
US-10-310-914A-416102
; Sequence 416102, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 416102
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-416102

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      650 GCGGCAGCAGCGCGCGCGC 669
Db      1 GCGGCGCGCGCGCGCGCGC 20

RESULT 1088
US-10-310-914A-42403
; Sequence 42403, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42403
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-42403

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      650 GCGGCAGCAGCGCGCGCGC 669
Db      1 GCGGCGCGCGCGCGCGCGC 20

RESULT 1089
US-10-310-914A-406898
; Sequence 406898, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 406898
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-406898

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 65.0%; Pred. No. 1.2e+03;
Matches 13; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY      274 CTCCTCTCTCTCCACCACCT 293
Db      1 CUCCUCCUCCUCCUCCUCCU 20

RESULT 1085
US-10-310-914A-406898
; Sequence 406898, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 406898
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-406898

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 60.0%; Pred. No. 1.2e+03;
Matches 12; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY      284 TCCACCACTCTCTCTCTCTT 303
Db      1 UCCUCCUCCUCCUCCUCCUU 20

RESULT 1086
US-10-310-914A-416101
; Sequence 416101, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
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RESULT 1089
US-10-310-914A-42404
; Sequence 42404, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42404
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-42404
Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669
Db 1 GCGGCGCGCGCGCGCGCGC 20

RESULT 1090
US-10-310-914A-42405
; Sequence 42405, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42405
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-42405
Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669
Db 1 GCGGCGCGCGCGCGCGCGC 20

RESULT 1091
US-10-310-914A-42406
; Sequence 42406, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
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; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42406
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-42406
Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669
Db 1 GCGGCGCGCGCGCGCGCGC 20

RESULT 1092
US-10-310-914A-42407
; Sequence 42407, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42407
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-42407
Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669
Db 1 GCGGCGCGCGCGCGCGCGC 20

RESULT 1093
US-10-310-914A-42408
; Sequence 42408, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42408
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-42408
Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669
Db 1 GCGGCGCGCGCGCGCGCGC 20

RESULT 1094
US-10-310-914A-42409
; Sequence 42409, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42409
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-42409
Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669
Db 1 GCGGCGCGCGCGCGCGCGC 20
```

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RESULT 1094
US-10-310-914A-42409
; Sequence 42409, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42409
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-42409

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGGC 669
      ||||| || ||||| |||||
Db 1 GCGGCGGCGCGCGCGCGGC 20

RESULT 1095
US-10-310-914A-42410
; Sequence 42410, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42410
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-42410

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGGC 669
      ||||| || ||||| |||||
Db 1 GCGGCGGCGCGCGCGCGGC 20

RESULT 1096
US-10-310-914A-42426
; Sequence 42426, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42426
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-42426

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGGC 669
      ||||| || ||||| |||||
Db 1 GCGGCGGCGCGCGCGCGGC 20
```

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; SEQ ID NO 42426
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-42426

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GCGGCAGCAGCGCGCGCGGC 671
      ||||| || ||||| |||||
Db 1 GCGGCGGCGCGCGCGCGGC 20

RESULT 1097
US-10-310-914A-425436/C
; Sequence 425436, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 425436
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-425436

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2643 TCCTCTGCCACCCCTGTTC 2662
      ||||| || ||||| |||||
Db 20 TCCTCTGCCACCCCTGGCTC 1

RESULT 1098
US-10-310-914A-430447
; Sequence 430447, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 430447
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-430447

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGGC 669
      ||||| || ||||| |||||
Db 1 GCGGCGGCGCGCGCGCGGC 20
```

```
RESULT 1099
US-10-310-914A-430448
; Sequence 430448, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 430448
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-430448

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCGGCGGCGGCGGCGG 669
DB 1 GCGGCGGCGGCGGCGGCGG 20

RESULT 1100
US-10-310-914A-437033
; Sequence 437033, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 437033
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-437033

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 655 AGCAGCGGCGGCGGCGGCGG 674
DB 1 AGCGGCGGCGGCGGCGGCGG 20

RESULT 1101
US-10-310-914A-452199
; Sequence 452199, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 452199
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; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-452199

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 70.0%; Pred. No. 1.2e+03;
Matches 14; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 267 CTCCTGCTCTCTCTCTCTCC 286
DB 1 CCCCCGCCUCCUCCUCCUCC 20

RESULT 1102
US-10-310-914A-46198/c
; Sequence 46198, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 46198
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-46198

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 660 CGGCGGCGGCGGCGGCGTGTG 679
DB 20 CGGCGGCGGCGGCGGCGGTG 1

RESULT 1103
US-10-310-914A-463646
; Sequence 463646, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 463646
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-463646

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 649 AGCGGCGAGCGGCGGCGGCGG 668
DB 1 AGCGGCGGCGGCGGCGGCGGCGG 20

RESULT 1104
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US-10-310-914A-503528/c
; Sequence 503528, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 503528
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-503528
Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 670
Db 20 CGGCAGCGCGCGCGCGGTG 1

RESULT 1105
US-10-310-914A-509639/c
; Sequence 509639, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 509639
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-509639
Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2651 CCACCTGTTCCTCCACCCC 2670
Db 20 CCACCTGTTCCTCCACCCC 1

RESULT 1106
US-10-310-914A-516163
; Sequence 516163, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 516163
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-516163
Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2651 CCACCTGTTCCTCCACCCC 2670
Db 20 CCACCTGTTCCTCCACCCC 1

RESULT 1107
US-10-310-914A-516171
; Sequence 516171, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 516171
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-516171
Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGCGCGG 671
Db 1 GCGCGCGCGCGCGCGCGCGG 20

RESULT 1108
US-10-310-914A-535570
; Sequence 535570, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 535570
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-535570
Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 70.0%; Pred. No. 1.2e+03;
Matches 14; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 273 CCTCTCTCTCTCCACCACC 292
Db 1 CCUCCUCCUCCUCCACUCC 20

RESULT 1109
US-10-310-914A-536233
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; Sequence 536233, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 536233  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-536233

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGGC 669  
||||| ||||| ||||| ||||| |||||  
Db 1 GCGCGCGCGCGCGCGGC 20

## RESULT 1110

US-10-310-914A-536234  
; Sequence 536234, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 536234  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-536234

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGGC 669  
||||| ||||| ||||| ||||| |||||  
Db 1 GCGCGCGCGCGCGCGGC 20

## RESULT 1111

US-10-310-914A-536235  
; Sequence 536235, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 536235  
; LENGTH: 20  
; TYPE: RNA

; ORGANISM: Human  
US-10-310-914A-536235

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGGC 669  
||||| ||||| ||||| ||||| |||||  
Db 1 GCGCGCGCGCGCGCGGC 20

## RESULT 1112

US-10-310-914A-536238  
; Sequence 536238, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 536238  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-536238

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 85.0%; Pred. No. 1.2e+03;  
Matches 17; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 659 GCGCGCGCGCGCGGCTGT 678  
||||| ||||| ||||| ||||| |||||  
Db 1 GCGCGCGCGCGCGCGGU 20

## RESULT 1113

US-10-310-914A-536240  
; Sequence 536240, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 536240  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-536240

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGGCGC 675  
||||| ||||| ||||| ||||| |||||  
Db 1 GCGCGCGCGCGCGGUGGC 20

## RESULT 1114

US-10-310-914A-536249  
; Sequence 536249, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 536249

; LENGTH: 20

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-536249

Query Match

Best Local Similarity 0.6%; Score 16.8; DB 1; Length 20;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GCGCAGCAGCGCGCGCGCG 671

||||| ||||| ||||| ||||| |||||

Db 1 GCGCGCGCGCGCGCGCGCG 20

RESULT 1115

US-10-310-914A-545427

; Sequence 545427, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 545427

; LENGTH: 20

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-545427

Query Match

Best Local Similarity 0.6%; Score 16.8; DB 1; Length 20;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGCAGCAGCGCGCGCGCG 669

||||| ||||| ||||| ||||| |||||

Db 1 GCGCGCGCGCGCGCGCGCG 20

RESULT 1116

US-10-310-914A-545428

; Sequence 545428, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 545428

; LENGTH: 20

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-545428

Query Match

Best Local Similarity 0.6%; Score 16.8; DB 1; Length 20;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGCAGCAGCGCGCGCGCG 669

||||| ||||| ||||| ||||| |||||

Db 1 GCGCGCGCGCGCGCGCGCG 20

RESULT 1117

US-10-310-914A-545429

; Sequence 545429, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 545429

; LENGTH: 20

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-545429

Query Match

Best Local Similarity 0.6%; Score 16.8; DB 1; Length 20;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGCAGCAGCGCGCGCGCG 669

||||| ||||| ||||| ||||| |||||

Db 1 GCGCGCGCGCGCGCGCGCG 20

RESULT 1118

US-10-310-914A-552933/c

; Sequence 552933, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 552933

; LENGTH: 20

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-552933

Query Match

Best Local Similarity 0.6%; Score 16.8; DB 1; Length 20;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 660 GCGCGCGCGCGCGCGCGTG 679

||||| ||||| ||||| ||||| |||||

Db 20 CGCGCGCGCGCGCGCGTG 1

RESULT 1119

US-10-310-914A-586512/c

; Sequence 586512, Application US/10310914A

; Publication No. US20060003322A1

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; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 586512
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-586512

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 208 GGGGTGGGTGGGGGGGAG 227
Db 20 GGGTGGGGGTGGGGGGGAG 1

RESULT 1120
US-10-310-914A-587646/c
; Sequence 587646, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 587646
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-587646

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 660 CGGCGCGCGCGGGGTGTG 679
Db 20 CGGCGCGCGCGGGGGGTG 1

RESULT 1121
US-10-310-914A-623963/c
; Sequence 623963, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 623963
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-623963
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Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2663 CCCACCCCTCTTCCTTCAT 2682
Db 20 CCCACCTCTCTTCCTTCTT 1

RESULT 1122
US-10-310-914A-629565
; Sequence 629565, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 629565
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-629565

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GCGACGCGCGCGGGGGG 671
Db 1 GCGCGCGCGCGGGGGGG 20

RESULT 1123
US-10-310-914A-649495/c
; Sequence 649495, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 649495
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-649495

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGGTGGGGGG 225
Db 20 GGTGGGGTGGGGTGGGGTGG 1

RESULT 1124
US-10-310-914A-649511/c
; Sequence 649511, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
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; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 649511
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-649511

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 207 GGGGGTGGGTGGGGGGA 226
    |||||||||
Db 20 GTGGGGTGGGTGGGGTGA 1

RESULT 1125
US-10-310-914A-656127/c
; Sequence 656127, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 656127
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-656127

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGTGGGGGG 225
    |||||||||
Db 20 GTGGGGTGGGTGGGGGTG 1

RESULT 1126
US-10-310-914A-659491
; Sequence 659491, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 659491
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-659491
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Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGGGGC 675
    |||||||||
Db 1 GCAGCGCGCGCGCGGAUGGC 20

RESULT 1127
US-10-310-914A-689305/c
; Sequence 689305, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 689305
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-689305

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 900 GGGCGGGGTGGCGCAGGGC 919
    |||||||||
Db 20 GGGCGGGGTGGCGCAGGGC 1

RESULT 1128
US-10-310-914A-69749/c
; Sequence 69749, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 69749
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-69749

Query Match      0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGGC 669
    |||||||||
Db 20 GCGGCAGCAGCGCGGCAGC 1

RESULT 1129
US-10-310-914A-704779
; Sequence 704779, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
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; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 733338
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-733338

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGCGCGG 671
Db 1 GCGCGCGCGCGCGCGCGG 20

RESULT 1135
US-10-310-914A-743436
; Sequence 743436, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 743436
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-743436

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 65.0%; Pred. No. 1.2e+03;
Matches 13; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 274 CTCCTCCTCTCCACCACT 293
Db 1 CUCCUCCUCCUCCUCCUCCU 20

RESULT 1136
US-10-310-914A-743437
; Sequence 743437, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 743437
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-743437

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 65.0%; Pred. No. 1.2e+03;
Matches 13; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 274 CTCCTCCTCTCCACCACT 293
Db 1 CUCCUCCUCCUCCUCCUCCU 20

RESULT 1137
US-10-310-914A-761113
; Sequence 761113, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 761113
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-761113

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 80.0%; Pred. No. 1.2e+03;
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 630 TCGCGCGCGTGCAGCGCAGCA 649
Db 1 UGCGCGCGGUGCGCGCAGCA 20

RESULT 1138
US-10-310-914A-77676/c
; Sequence 77676, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 77676
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-77676

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 293 TCCTCCTCTCTCTCTCTCTCC 312
Db 20 TCCTCCTCTCTCTCTCTCTCC 1

RESULT 1139
US-10-310-914A-78079
; Sequence 78079, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
```

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Matches 13; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 274 CTCCTCCTCTCCACCACT 293
Db 1 CUCCUCCUCCUCCUCCUCCU 20

RESULT 1137
US-10-310-914A-761113
; Sequence 761113, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 761113
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-761113

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 80.0%; Pred. No. 1.2e+03;
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 630 TCGCGCGCGTGCAGCGCAGCA 649
Db 1 UGCGCGCGGUGCGCGCAGCA 20

RESULT 1138
US-10-310-914A-77676/c
; Sequence 77676, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 77676
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-77676

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 293 TCCTCCTCTCTCTCTCTCTCC 312
Db 20 TCCTCCTCTCTCTCTCTCTCC 1

RESULT 1139
US-10-310-914A-78079
; Sequence 78079, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
```

```

: APPLICANT: Bentwich, Isaac
: APPLICANT: Shiler, Kvyzat
: TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
: TITLE OF INVENTION: uses thereof

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; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 807647
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-807647
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Query Match 0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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```
QY 650 GCGGCGGCGGCGGCGGCGG 669
      ||||| ||||| ||||| |||||
Db 1 GCGGCGGCGGCGGCGGCGGCGG 20
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## RESULT 1145

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US-10-310-914A-807648
; Sequence 807648, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
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; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 807648
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-807648
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```
Query Match 0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 650 GCGGCGGCGGCGGCGGCGG 669
      ||||| ||||| ||||| |||||
Db 1 GCGGCGGCGGCGGCGGCGGCGG 20
```

## RESULT 1146

```
US-10-310-914A-807650
; Sequence 807650, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 807650
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-807650
```

```
Query Match 0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 85.0%; Pred. No. 1.2e+03;
Matches 17; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 659 GCGGCGGCGGCGGCGGCTGT 678
      ||||| ||||| ||||| |||||
Db 1 GCGGCGGCGGCGGCGGCGGU 20
```

## RESULT 1147

```
US-10-310-914A-807652
; Sequence 807652, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 807652
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-807652
```

```
Query Match 0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 656 GCAGCGGCGGCGGCGGCGG 675
      ||||| ||||| ||||| |||||
Db 1 GCGGCGGCGGCGGCGGUGGC 20
```

## RESULT 1148

```
US-10-310-914A-807658
; Sequence 807658, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 807658
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-807658
```

```
Query Match 0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 652 GGCAGCGGCGGCGGCGGCG 671
      ||||| ||||| ||||| |||||
Db 1 GCGGCGGCGGCGGCGGCGGCG 20
```

## RESULT 1149

```
US-10-310-914A-807659
; Sequence 807659, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
```



; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 807659  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-807659

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GCGAGCAGCGCGCGCGCG 671  
DB 1 GCGCGCGCGCGCGCGCG 20

## RESULT 1150

US-10-310-914A-816498/c  
; Sequence 816498, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 816498  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-816498

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGCGGCG 675  
DB 20 GCGCGCGCGCGCGCGGAGC 1

## RESULT 1151

US-10-310-914A-821819  
; Sequence 821819, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 821819  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-821819

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 65.0%; Pred. No. 1.2e+03;  
Matches 13; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 274 CTCCTCTCTCTCCACCACT 293

DB 1 CUCCUCCUCCUCCUCCUCCU 20

## RESULT 1152

US-10-310-914A-824416  
; Sequence 824416, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 824416  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-824416

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2361 AGAAGACAGACAGACAGAA 2380  
DB 1 AGACAGACAGACAGACGGAA 20

## RESULT 1153

US-10-310-914A-838205  
; Sequence 838205, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 838205  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-838205

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCGCGCGCGCGCGGC 669  
DB 1 GCGGCGCGCGCGCGCGGC 20

## RESULT 1154

US-10-310-914A-838387  
; Sequence 838387, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 838387  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-838387

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669  
||||| ||||| ||||| ||||| |||||  
DB 1 GCGGCGGCGCGCGCGCGC 20

## RESULT 1155

US-10-310-914A-845273  
; Sequence 845273, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 845273  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-845273

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669  
||||| ||||| ||||| ||||| |||||  
DB 1 GCGGCGGCGCGCGCGCGC 20

## RESULT 1156

US-10-310-914A-845274  
; Sequence 845274, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 845274  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-845274

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669  
||||| ||||| ||||| ||||| |||||

DB 1 GCGGCGGCGCGCGCGCGC 20

## RESULT 1157

US-10-310-914A-864302/c  
; Sequence 864302, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 864302  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-864302

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGCGCGG 671  
||||| ||||| ||||| ||||| |||||  
DB 20 GCGGCGGCGCGCGCGCGG 1

## RESULT 1158

US-10-310-914A-87754/c  
; Sequence 87754, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 87754  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-87754

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 655 AGCAGCGCGCGCGCGCGG 674  
||||| ||||| ||||| ||||| |||||  
DB 20 ATCAGCGCGCGCGCGCGG 1

## RESULT 1159

US-10-310-914A-88230  
; Sequence 88230, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 88230  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-88230

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCGGCGGCGGCGGCG 669  
Db 1 GCGGCGGCGGCGGCGGCGG 20

## RESULT 1160

US-10-310-914A-88239  
; Sequence 88239, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 88239  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-88239

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GCGGCGGCGGCGGCGGCG 671  
Db 1 GCGGCGGCGGCGGCGGCGG 20

## RESULT 1161

US-10-310-914A-884525/c  
; Sequence 884525, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 884525  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-884525

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2158 GCAGTGGCTGCTTCTGCT 2177  
Db 20 GCTGTGGCTGCTTCTGCT 1

## RESULT 1162

US-10-310-914A-889435/c  
; Sequence 889435, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 889435  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-889435

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 655 AGCAGCGGCGGCGGCGGCG 674  
Db 20 AGCGGCGGCGGCGGCGG 1

## RESULT 1163

US-10-310-914A-89191  
; Sequence 89191, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 89191  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-89191

Query Match 0.6%; Score 16.8; DB 1; Length 20;  
Best Local Similarity 90.0%; Pred. No. 1.2e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCGGCGGCGGCGGCG 669  
Db 1 GUGGCGGCGGCGGCGGCGG 20

## RESULT 1164

US-10-310-914A-906948  
; Sequence 906948, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402

```

; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 906948
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-906948

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      647 GCAGCGGCAGCAGCGGCGGC 666
Db      1 GCAGCAGCAGCAGCGGCGUC 20

RESULT 1165
US-10-310-914A-971298
; Sequence 971298, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 971298
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-971298

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 65.0%; Pred. No. 1.2e+03;
Matches 13; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY      274 CTCCTCTCTCTCCACCACT 293
Db      1 CUCCUCCUCCUCCUCCCU 20

RESULT 1166
US-10-310-914A-971299
; Sequence 971299, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 971299
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-971299

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 65.0%; Pred. No. 1.2e+03;
Matches 13; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY      274 CTCCTCTCTCTCCACCACT 293
Db      1 CUCCUCCUCCUCCUCCCU 20

; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 906948
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-906948

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      647 GCAGCGGCAGCAGCGGCGGC 666
Db      1 GCAGCAGCAGCAGCGGCGUC 20

RESULT 1165
US-10-310-914A-971298
; Sequence 971298, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 971298
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-971298

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      270 CTGCTCTCTCTCTCTCCACC 289
Db      20 CCGCTCTCTCTCTCTCGCC 1

RESULT 1166
US-10-310-914A-992022
; Sequence 992022, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 992022
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-992022

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      650 CGCGCAGCAGCGCGCGGC 669
Db      1 CGCGCGCAGCGCGUGCGGC 20

RESULT 1169
US-10-310-914A-997341
; Sequence 997341, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3

```



```
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 507
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-507

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGTGGGGGGG 225
      ||||| |||| |||||
Db 20 GGGGGGGGGGGGGGGGGG 1

RESULT 1174
US-11-127-654-508
; Sequence 508, Application US/11/127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 508
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-508

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGTGGGGGGG 225
      ||||| |||| |||||
Db 1 GGGGGGGGGGGGGGGGGG 20

RESULT 1175
US-11-179-128-63
; Sequence 63, Application US/11/179128
; Publication No. US20060019920A1
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Susan M. Freier
; APPLICANT: Brett P. Monia
```

```
; APPLICANT: Nicholas M. Dean
; APPLICANT: Hong Zhang
; APPLICANT: Robert McKay
; APPLICANT: Donna T. Ward
; APPLICANT: William Gaarde
; APPLICANT: Jacqueline Wyatt
; APPLICANT: Andrew T. Watt
; APPLICANT: Rosanne M. Crooke
; APPLICANT: Mark J. Graham
; APPLICANT: Pamela Nero
; APPLICANT: Kenneth W. Dobie
; APPLICANT: Alexander H. Borchers
; APPLICANT: Eric G. Marcussen
; APPLICANT: Mark P. Roach
; TITLE OF INVENTION: ANTISENSE MODULATION OF MEKK4 EXPRESSION
; FILE REFERENCE: BNDL-0024US.P1
; CURRENT APPLICATION NUMBER: US/11/179,128
; CURRENT FILING DATE: 2005-07-11
; PRIOR APPLICATION NUMBER: 10/371,474
; PRIOR FILING DATE: 2003-02-21
; PRIOR APPLICATION NUMBER: 09/676,436
; PRIOR FILING DATE: 2000-09-29
; PRIOR APPLICATION NUMBER: 10/304,105
; PRIOR FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: 10/303,327
; PRIOR FILING DATE: 2002-11-23
; PRIOR APPLICATION NUMBER: 10/759,618
; PRIOR FILING DATE: 2004-01-16
; PRIOR APPLICATION NUMBER: 09/917,963
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 10/019,368
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: PCT/US00/13170
; PRIOR FILING DATE: 2000-05-12
; PRIOR APPLICATION NUMBER: 09/313,930
; PRIOR FILING DATE: 1999-05-18
; PRIOR APPLICATION NUMBER: 10/345,444
; PRIOR FILING DATE: 2003-01-15
; REMAINING PRIOR APPLICATION DATA REMOVED - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 89
; SEQ ID NO 63
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-11-179-128-63

Query Match          0.6%; Score 16.8; DB 1; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGCGGC 663
      ||||| ||||| |||||
Db 1 GCAGCAGCAGCAGCAGCAGC 20

RESULT 1176
US-10-310-914A-1001530/c
; Sequence 1001530, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1001530
; LENGTH: 21
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; ORGANISM: Human
US-10-310-914A-101760

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 208 GGGGGTGGGTGGGGGGGAG 227
      |||||
Db 20 GGGGGTGGGTGGGGGGTGG 1

RESULT 1182
US-10-310-914A-1027629/c
; Sequence 1027629, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1027629
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1027629

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCAGCAGCGGC 663
      |||||
Db 21 GCAGCAGCAGCAGCAGCAGC 2

RESULT 1183
US-10-310-914A-1027630/c
; Sequence 1027630, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1027630
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1027630

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCAGCAGCGGC 663
      |||||
Db 21 GCAGCAGCAGCAGCAGCAGC 2

RESULT 1184
US-10-310-914A-1063058
; Sequence 1063058, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1063058
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1063058

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 14; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 276 CTTCTCTCTCCACCTCC 295
      |||:|:|:|:|:|:|:|
Db 1 CCUCUCCUCCACCUCCUCC 20

RESULT 1185
US-10-310-914A-1105365
; Sequence 1105365, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1105365
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1105365

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 85.0%; Pred. No. 1.3e+03;
Matches 17; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 659 GCGGCGGCGGCGGCGCTGT 678
      |||||
Db 2 GCGGCGGCGGCGGCGCGGU 21

RESULT 1186
US-10-310-914A-114276
; Sequence 114276, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 114276
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-114276
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```
US-10-310-914A-114276
Query Match      0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 70.0%; Pred. No. 1.3e+03;
Matches 14; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

Qy 273 CCTCTCCTCTCCACACC 292
|||:|||:|||:|||
Db 1 CCUCCUCCUCCUCCUCC 20

RESULT 1187
US-10-310-914A-1165143
; Sequence 1165143, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1165143
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1165143
Query Match      0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 75.0%; Pred. No. 1.3e+03;
Matches 15; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 280 CTCCTCACCACTTCCTCT 299
||| |||||:|||:|||
Db 1 CGCGCCACCACCUCCUCC 20

RESULT 1188
US-10-310-914A-1185122/c
; Sequence 1185122, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1185122
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1185122
Query Match      0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2739 CTGCCCTCCAGCTGGGTG 2758
||||||| |||||
Db 20 CAGCCCCCTCGGCTGGGTG 1

RESULT 1189
US-10-310-914A-1216672
; Sequence 1216672, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1256057
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1256057/c
; Sequence 1256057, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1256057
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1256057
```

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 1.3e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCGGAGCGGCGGCGGC 669  
||||| ||||||| ||||||| |||||

Db 20 GCGGCGGAGCGGCGGCGGC 1

## RESULT 1192

US-10-310-914A-1259292/c  
; Sequence 1259292, Application US/10310914A  
; Publication No. US20060003322A1

## GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 1259292

; LENGTH: 21

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-1259292

## Query Match

Best Local Similarity 90.0%; Score 16.8; DB 1; Length 21;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 208 GGGGGTGGGTGGGGGGGAG 227  
||||| ||||||| ||||||| |||||

Db 21 GGGGGAGGGTGGGGGGAG 2

## RESULT 1193

US-10-310-914A-1268682/c  
; Sequence 1268682, Application US/10310914A  
; Publication No. US20060003322A1

## GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 1268682

; LENGTH: 21

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-1268682

## Query Match

Best Local Similarity 90.0%; Score 16.8; DB 1; Length 21;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 274 CTCCTCTCTCTCCACCACTT 293  
||||| ||||||| ||||||| |||||

Db 21 CCCCTCTCTCTCCACCTCT 2

## RESULT 1194

US-10-310-914A-1281611/c  
; Sequence 1281611, Application US/10310914A  
; Publication No. US20060003322A1

## GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 1281611

; LENGTH: 21

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-1281611

## Query Match

Best Local Similarity 90.0%; Score 16.8; DB 1; Length 21;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCGAGCGGC 663  
||||| ||||||| ||||||| |||||

Db 21 GCAGCAGCGAGCGAGCGC 2

## RESULT 1195

US-10-310-914A-1281612/c  
; Sequence 1281612, Application US/10310914A  
; Publication No. US20060003322A1

## GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 1281612

; LENGTH: 21

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-1281612

## Query Match

Best Local Similarity 90.0%; Score 16.8; DB 1; Length 21;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCGAGCGGC 663  
||||| ||||||| ||||||| |||||

Db 21 GCAGCAGCGAGCGAGCGC 2

## RESULT 1196

US-10-310-914A-1281613/c  
; Sequence 1281613, Application US/10310914A  
; Publication No. US20060003322A1

## GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 1281613

; LENGTH: 21

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-1281613

```
Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGCGGC 663
DB 21 GCAGCAGCAGCAGCAGCAGC 2

RESULT 1197
US-10-310-914A-1281614/c
; Sequence 1281614, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1281614
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1281614

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGCGGC 663
DB 21 GCAGCAGCAGCAGCAGCAGC 2

RESULT 1198
US-10-310-914A-1281615/c
; Sequence 1281615, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1281615
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1281615

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGCGGC 663
DB 21 GCAGCAGCAGCAGCAGCAGC 2

RESULT 1199
US-10-310-914A-1281616/c
; Sequence 1281616, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
```

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; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1281616
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1281616

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGCGGC 663
DB 21 GCAGCAGCAGCAGCAGCAGC 2

RESULT 1200
US-10-310-914A-1281617/c
; Sequence 1281617, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1281617
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1281617

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGCGGC 663
DB 21 GCAGCAGCAGCAGCAGCAGC 2

RESULT 1201
US-10-310-914A-1281618/c
; Sequence 1281618, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1281618
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1281618

Query Match          0.6%; Score 16.8; DB 1; Length 21;
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Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCACGACGCGCGCAGCAGCGC 663
    ||||| ||||| ||||| |||||
Db 21 GCACGACGACGACGACGACG 2

RESULT 1202
US-10-310-914A-1281619/c
; Sequence 1281619, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1281619
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1281619

Query Match 0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCACGACGCGCGCAGCAGCGC 663
    ||||| ||||| ||||| |||||
Db 21 GCACGACGACGACGACGACG 2

RESULT 1203
US-10-310-914A-1343685/c
; Sequence 1343685, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1343685
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1343685

Query Match 0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCACGACGCGCGCAGCAGCGC 663
    ||||| ||||| ||||| |||||
Db 21 GCACGACGACGACGACGACG 2

RESULT 1204
US-10-310-914A-134685/c
; Sequence 134685, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
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; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 134685
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-134685

Query Match 0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 660 CGCGCGCGCGCGCGCTGTG 679
    ||||| ||||| ||||| |||||
Db 21 CGCGCGCGCGCGCGCGGTG 2

RESULT 1205
US-10-310-914A-1349832/c
; Sequence 1349832, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1349832
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1349832

Query Match 0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGCGACGACGCGCGCGCGC 670
    ||||| ||||| ||||| |||||
Db 21 CGGTAGCGCGCGCGCGCGC 2

RESULT 1206
US-10-310-914A-1365317
; Sequence 1365317, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1365317
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1365317

Query Match 0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 80.0%; Pred. No. 1.3e+03;
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Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 213 TGGGTGGGGGAGGAGCAG 232
      :|||:|||||
Db 1 UGGGUGGGUGGAGGAGCAAG 20

RESULT 1207
US-10-310-914A-1366590/c
; Sequence 1366590, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1366590
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1366590

Query Match 0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGAGCAGCGC 663
      |||||
Db 21 GCAGCAGCAGCAGCAGCAGC 2

RESULT 1208
US-10-310-914A-1366591/c
; Sequence 1366591, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1366591
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1366591

Query Match 0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGAGCAGCGC 663
      |||||
Db 21 GCAGCAGCAGCAGCAGCAGC 2

RESULT 1209
US-10-310-914A-1366592/c
; Sequence 1366592, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
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; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1366592
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1366592

Query Match 0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGAGCAGCGC 663
      |||||
Db 21 GCAGCAGCAGCAGCAGCAGC 2

RESULT 1210
US-10-310-914A-1366593/c
; Sequence 1366593, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1366593
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1366593

Query Match 0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGAGCAGCGC 663
      |||||
Db 21 GCAGCAGCAGCAGCAGCAGC 2

RESULT 1211
US-10-310-914A-1366594/c
; Sequence 1366594, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1366594
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1366594

Query Match 0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1369390
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1369390

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      656 GCAGCGCGGCGCGCGGGGC 675
Db      1 GCGGCGGCGGCGCGGAGC 20

RESULT 1215
US-10-310-914A-1370010/c
; Sequence 1370010, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1370010
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1370010

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      899 GGGCGGCGGCGCGCGAGG 918
Db      21 GGGCGGCGGCGCGCGGG 2

RESULT 1216
US-10-310-914A-138531/c
; Sequence 138531, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 138531
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-138531

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      644 GCAGCAGCGCGCAGCGGC 663
Db      21 GCAGCAGCAGCAGCAGC 2

RESULT 1212
US-10-310-914A-1366595/c
; Sequence 1366595, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1366595
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1366595

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      644 GCAGCAGCGCGCAGCGGC 663
Db      21 GCAGCAGCAGCAGCAGC 2

RESULT 1213
US-10-310-914A-1366596/c
; Sequence 1366596, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1366596
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1366596

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      644 GCAGCAGCGCGCAGCGGC 663
Db      21 GCAGCAGCAGCAGCAGC 2

RESULT 1214
US-10-310-914A-1369390
; Sequence 1369390, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
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QY 645 CAGCAGCGCGCAGCAGCGGC 664  
Db 20 CAGCAGCGCGCAGCAGCGGC 1

RESULT 1217  
US-10-310-914A-1386515/c  
; Sequence 1386515, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1386515  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1386515

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 1.3e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCAGCAGCGGC 663  
Db 21 GCAGCAGCGCAGCAGCAGC 2

RESULT 1218  
US-10-310-914A-1386516/c  
; Sequence 1386516, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1386516  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1386516

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 1.3e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCAGCAGCGGC 663  
Db 21 GCAGCAGCGCAGCAGCAGC 2

RESULT 1219  
US-10-310-914A-1386517/c  
; Sequence 1386517, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1386517  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1386517

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 1.3e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCAGCAGCGGC 663  
Db 21 GCAGCAGCGCAGCAGCAGC 2

RESULT 1220  
US-10-310-914A-143170  
; Sequence 143170, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 143170  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-143170

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 1.3e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGCGGC 675  
Db 1 GCGCGCGCGCGCGCGGC 20

RESULT 1221  
US-10-310-914A-148278/c  
; Sequence 148278, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 148278  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-148278

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 1.3e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCAGCAGCGGC 663

```
Db      21 GCAGCAGCAGCAGCAGCAGC 2
|||||
CURRENT FILING DATE: 2002-12-06
NUMBER OF SEQ ID NOS: 1388402
SOFTWARE: PatentIn version 3.3
SEQ ID NO 163384
LENGTH: 21
TYPE: RNA
ORGANISM: Human
US-10-310-914A-163384

Query Match      0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      656 GCAGCGCGCGCGCGCGGCGC 675
      || |||||
Db      21 GCGGCGCGCGCGCGCGGAGGC 2

RESULT 1225
US-10-310-914A-167360
; Sequence 167360, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 167360
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-167360

Query Match      0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      656 GCAGCGCGCGCGCGCGGCGC 675
      || |||||
Db      1 GCGGCGCGCGCGCGCGGAGGC 20

RESULT 1226
US-10-310-914A-167725/c
; Sequence 167725, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 167725
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-167725

Query Match      0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      656 GCAGCGCGCGCGCGCGGCGC 675
      || |||||
Db      1 GCGGCGCGCGCGCGCGGAGGC 20

Db      21 GCAGCAGCAGCAGCAGCAGC 2
|||||
CURRENT FILING DATE: 2002-12-06
NUMBER OF SEQ ID NOS: 1388402
SOFTWARE: PatentIn version 3.3
SEQ ID NO 163384
LENGTH: 21
TYPE: RNA
ORGANISM: Human
US-10-310-914A-163384

Query Match      0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      656 GCAGCGCGCGCGCGCGGCGC 675
      || |||||
Db      21 GCGGCGCGCGCGCGCGGAGGC 2

RESULT 1222
US-10-310-914A-148692/c
; Sequence 148692, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 148692
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-148692

Query Match      0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1368 CTTGCCCTTTTACCTGGAGG 1387
      |||||
Db      20 CTTGCCCTTTTACCTTGAGG 1

RESULT 1223
US-10-310-914A-152831
; Sequence 152831, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 152831
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-152831

Query Match      0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 80.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      209 GGGGTGGGGTGGGGGGGAGG 228
      |||||
Db      2 GGGGUGGGUGGGGAGGAAG 21

RESULT 1224
US-10-310-914A-163384/c
; Sequence 163384, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
```



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Db      21  GCGGCGGCGGCGGCGGAGGC 2

RESULT 1227
US-10-310-914A-167726/c
; Sequence 167726, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 167726
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-167726

Query Match      0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      656  GCAGCGGCGGCGGCGGCGGAGGC 2
Db      21  GCGGCGGCGGCGGCGGAGGC 2

RESULT 1228
US-10-310-914A-181028/c
; Sequence 181028, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 181028
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-181028

Query Match      0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      644  GCAGCAGCGGCGGCGGCGGAGGC 663
Db      21  GCAGCAGCGGCGGCGGAGGC 2

RESULT 1229
US-10-310-914A-181029/c
; Sequence 181029, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 181029
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-181029

Query Match      0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      644  GCAGCAGCGGCGGCGGCGGAGGC 663
Db      21  GCAGCAGCGGCGGCGGAGGC 2

RESULT 1230
US-10-310-914A-181030/c
; Sequence 181030, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 181030
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-181030

Query Match      0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      644  GCAGCAGCGGCGGCGGCGGAGGC 663
Db      21  GCAGCAGCGGCGGCGGAGGC 2

RESULT 1231
US-10-310-914A-181031/c
; Sequence 181031, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 181031
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-181031

Query Match      0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      644  GCAGCAGCGGCGGCGGCGGAGGC 663
Db      21  GCAGCAGCGGCGGCGGAGGC 2
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; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 181034
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-181034

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      644 GCAGCAGCGCGCAGCAGCGGC 663
      ||||||| ||||||| ||||||| ||
Db      21 GCAGCAGCAGCAGCAGCAGCAGC 2

RESULT 1235
US-10-310-914A-182771/c
; Sequence 182771, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 182771
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-182771

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      656 GCAGCAGCGCGCGCGCGGCGC 675
      ||||||| ||||||| ||||||| ||
Db      21 GCAGCAGCGCGCGCGCGGCGGAGC 2

RESULT 1236
US-10-310-914A-182800/c
; Sequence 182800, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 182800
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-182800

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      653 GCAGCAGCGCGCGCGCGGCGG 672
      ||||||| ||||||| ||||||| ||
Db      21 GCAGCAGCGCGCGCGCGGCGGCGG 2

; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 181034
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-181032

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      644 GCAGCAGCGCGCAGCAGCGGC 663
      ||||||| ||||||| ||||||| ||
Db      21 GCAGCAGCAGCAGCAGCAGCAGC 2

RESULT 1233
US-10-310-914A-181033/c
; Sequence 181033, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 181033
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-181033

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      644 GCAGCAGCGCGCAGCAGCGGC 663
      ||||||| ||||||| ||||||| ||
Db      21 GCAGCAGCAGCAGCAGCAGCAGC 2

RESULT 1234
US-10-310-914A-181034/c
; Sequence 181034, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
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RESULT 1237
US-10-310-914A-189776/c
; Sequence 189776, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 189776
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-189776

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGCGG 672
Db 21 GCGGCGCGCGCGCGCGG 2

RESULT 1238
US-10-310-914A-189785/c
; Sequence 189785, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 189785
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-189785

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCAGCGCGCGCGCGG 675
Db 21 GCGGCGCGCGCGCGCGG 2

RESULT 1239
US-10-310-914A-193606/c
; Sequence 193606, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
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; SEQ ID NO 193606
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-193606

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCGCGCGG 663
Db 21 GCAGCAGCAGCAGCAGCAGC 2

RESULT 1240
US-10-310-914A-193607/c
; Sequence 193607, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 193607
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-193607

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCGCGCGG 663
Db 21 GCAGCAGCAGCAGCAGCAGC 2

RESULT 1241
US-10-310-914A-200844/c
; Sequence 200844, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 200844
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-200844

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2363 AAAGACACACACAGAGAAAG 2382
Db 21 AAAGACAGAAAGAGAGAAAG 2
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RESULT 1242
US-10-310-914A-215746/c
; Sequence 215746, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 215746
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-215746

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      644 GCAGCAGCGGCAGCAGCGGC 663
Db      21 GCAGCAGCGGCAGCAGCAGC 2

RESULT 1243
US-10-310-914A-215747/c
; Sequence 215747, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 215747
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-215747

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      644 GCAGCAGCGGCAGCAGCGGC 663
Db      21 GCAGCAGCGGCAGCAGCAGC 2

RESULT 1244
US-10-310-914A-215748/c
; Sequence 215748, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 215748
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; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-215748

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      644 GCAGCAGCGGCAGCAGCGGC 663
Db      21 GCAGCAGCGGCAGCAGCAGC 2

RESULT 1245
US-10-310-914A-218129
; Sequence 218129, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 218129
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-218129

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 85.0%; Pred. No. 1.3e+03;
Matches 17; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      901 GCGGGGGTGGCGCAGGGGCC 920
Db      2 GCGGGGGGUGGGGCAGGGGUC 21

RESULT 1246
US-10-310-914A-223362/c
; Sequence 223362, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 223362
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-223362

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      894 GCACGGGGGGGGGGTGGCG 913
Db      21 GGGCGGGGGGGGGGGCGGCG 2

RESULT 1247
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US-10-310-914A-226963/c
; Sequence 226963, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 226963
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-226963

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GCGGGGGTGGGTGGGGGG 225
Db 20 GCGGGGGCGGGTGGGGGGG 1

RESULT 1248
US-10-310-914A-241057/c
; Sequence 241057, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 241057
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-241057

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGCGGC 563
Db 21 GCAGCAGCAGCAGCAGCAGC 2

RESULT 1249
US-10-310-914A-241058/c
; Sequence 241058, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 241058
; LENGTH: 21
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; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-241058

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGCGGC 663
Db 21 GCAGCAGCAGCAGCAGCAGC 2

RESULT 1250
US-10-310-914A-241059/c
; Sequence 241059, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 241059
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-241059

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGCGGC 663
Db 21 GCAGCAGCAGCAGCAGCAGC 2

RESULT 1251
US-10-310-914A-241060/c
; Sequence 241060, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 241060
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-241060

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGCGGC 663
Db 21 GCAGCAGCAGCAGCAGCAGC 2

RESULT 1252
US-10-310-914A-241061/c
; Sequence 241061, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 241061
; LENGTH: 21
```



```

; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 241066
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-241066

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      644 GCAGCAGCGGCAGCAGCGGC 663
      ||||| ||||| ||||| ||||| ||
Db      21 GCAGCAGCAGCAGCAGCAGC 2

RESULT 1258
US-10-310-914A-241067/c
; Sequence 241067, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 241067
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-241067

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      644 GCAGCAGCGGCAGCAGCGGC 663
      ||||| ||||| ||||| ||||| ||
Db      21 GCAGCAGCAGCAGCAGCAGC 2

RESULT 1259
US-10-310-914A-241068/c
; Sequence 241068, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 241068
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-241068
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US-10-310-914A-241068

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      644 GCAGCAGCGGCAGCAGCGGC 663
      ||||| ||||| ||||| ||||| ||
Db      21 GCAGCAGCAGCAGCAGCAGC 2

RESULT 1260
US-10-310-914A-241069/c
; Sequence 241069, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 241069
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-241069

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      644 GCAGCAGCGGCAGCAGCGGC 663
      ||||| ||||| ||||| ||||| ||
Db      21 GCAGCAGCAGCAGCAGCAGC 2

RESULT 1261
US-10-310-914A-241070/c
; Sequence 241070, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 241070
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-241070

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      644 GCAGCAGCGGCAGCAGCGGC 663
      ||||| ||||| ||||| ||||| ||
Db      21 GCAGCAGCAGCAGCAGCAGC 2

RESULT 1262
US-10-310-914A-245294/c
; Sequence 245294, Application US/10310914A
; Publication No. US20060003322A1
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; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 245294
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-245294

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCACGAGCGGCGGCGGC 670
    ||||| ||||| ||||| |||||
Db 21 CGGCGGCGGCGGCGGCGGC 2

RESULT 1263
US-10-310-914A-271794
; Sequence 271794, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 271794
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-271794

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228
    ||||| ||||| ||||| |||||
Db 1 GGGGAGGGGAGGGGGGAGG 20

RESULT 1264
US-10-310-914A-271795
; Sequence 271795, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 271795
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-271795
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Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228
    ||||| ||||| ||||| |||||
Db 1 GGGGAGGGGAGGGGGGAGG 20

RESULT 1265
US-10-310-914A-275935/c
; Sequence 275935, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 275935
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-275935

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGGCGGCGGCGGCGC 675
    ||||| ||||| ||||| |||||
Db 21 GCGGCGGCGGCGGCGGCGC 2

RESULT 1266
US-10-310-914A-276564/c
; Sequence 276564, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 276564
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-276564

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCGAGCGGCG 663
    ||||| ||||| ||||| |||||
Db 21 GCAGCAGCGAGCGAGCGAGC 2

RESULT 1267
US-10-310-914A-294420
; Sequence 294420, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
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; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 294420
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-294420

Query Match      0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 80.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGAGG 228
Db 1 GGAGUGGGGUGGGGAGG 20

RESULT 1268
US-10-310-914A-294468
; Sequence 294468, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 294468
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-294468

Query Match      0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 80.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGAGG 228
Db 1 GGAGUGGGGUGGGGAGG 20

RESULT 1269
US-10-310-914A-294585
; Sequence 294585, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 294585
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-294585
```

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Query Match      0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 80.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGAGG 228
Db 1 GGAGUGGGGUGGGGAGG 20

RESULT 1270
US-10-310-914A-294628
; Sequence 294628, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 294628
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-294628

Query Match      0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 80.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGAGG 228
Db 2 GGAGUGGGGUGGGGAGG 21

RESULT 1271
US-10-310-914A-294766
; Sequence 294766, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 294766
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-294766

Query Match      0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 80.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGAGG 228
Db 1 GGAGUGGGGUGGGGAGG 20

RESULT 1272
US-10-310-914A-294826
; Sequence 294826, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
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; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 294952
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-294952

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 80.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228
    |||:||||:|||||
Db 2 GGAGUGGGUGGGGAGGAGG 21

RESULT 1273
US-10-310-914A-294952
; Sequence 294952, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 294952
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-294952

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 80.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228
    |||:||||:|||||
Db 1 GGAGUGGGUGGGGAGGAGG 20

RESULT 1274
US-10-310-914A-294999
; Sequence 294999, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 294999
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-294999

Query Match          0.6%; Score 16.8; DB 1; Length 21;
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Best Local Similarity 80.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228
    |||:||||:|||||
Db 2 GGAGUGGGUGGGGAGGAGG 21

RESULT 1275
US-10-310-914A-295114
; Sequence 295114, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 295114
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-295114

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 80.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228
    |||:||||:|||||
Db 1 GGAGUGGGUGGGGAGGAGG 20

RESULT 1276
US-10-310-914A-295164
; Sequence 295164, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 295164
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-295164

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 80.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228
    |||:||||:|||||
Db 2 GGAGUGGGUGGGGAGGAGG 21

RESULT 1277
US-10-310-914A-295282
; Sequence 295282, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
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; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 295282
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-295282

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 80.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228
Db 1 GGAGUGGGUGGGGAGGAGG 20

RESULT 1278
US-10-310-914A-295324
; Sequence 295324, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 295324
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-295324

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 80.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228
Db 2 GGAGUGGGUGGGGAGGAGG 21

RESULT 1279
US-10-310-914A-295436
; Sequence 295436, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 295436
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-295436

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 80.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228
Db 2 GGAGUGGGUGGGGAGGAGG 21

RESULT 1278
US-10-310-914A-295588
; Sequence 295588, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 295588
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-295588

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 80.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228
Db 2 GGAGUGGGUGGGGAGGAGG 21

RESULT 1281
US-10-310-914A-295588
; Sequence 295588, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 295588
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-295588

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 80.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228
Db 2 GGAGUGGGUGGGGAGGAGG 21

RESULT 1282
US-10-310-914A-295630
; Sequence 295630, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
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Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228
Db 1 GGAGUGGGUGGGGAGGAGG 20

RESULT 1280
US-10-310-914A-295481
; Sequence 295481, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 295481
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-295481

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 80.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228
Db 2 GGAGUGGGUGGGGAGGAGG 21

RESULT 1281
US-10-310-914A-295588
; Sequence 295588, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 295588
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-295588

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 80.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228
Db 1 GGAGUGGGUGGGGAGGAGG 20

RESULT 1282
US-10-310-914A-295630
; Sequence 295630, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
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; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 295630  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-295630

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228  
|||:||||:|||||  
Db 2 GGAGUGGGUGGGAGGAGG 21

RESULT 1283  
US-10-310-914A-295746  
; Sequence 295746, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 295746  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-295746

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228  
|||:||||:|||||  
Db 1 GGAGUGGGUGGGAGGAGG 20

RESULT 1284  
US-10-310-914A-295788  
; Sequence 295788, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 295788  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-295788

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228  
|||:||||:|||||  
Db 2 GGAGUGGGUGGGAGGAGG 21

RESULT 1285  
US-10-310-914A-295901  
; Sequence 295901, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 295901  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-295901

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228  
|||:||||:|||||  
Db 1 GGAGUGGGUGGGAGGAGG 20

RESULT 1286  
US-10-310-914A-295947  
; Sequence 295947, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 295947  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-295947

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228  
|||:||||:|||||  
Db 2 GGAGUGGGUGGGAGGAGG 21

RESULT 1287  
US-10-310-914A-296074  
; Sequence 296074, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 296074  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-296074

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 296074  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-296074

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228  
|||:||||:|||||  
Db 1 GGAGUGGGGUGGGAGGAGG 20

RESULT 1288  
US-10-310-914A-296129  
; Sequence 296129, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 296129  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-296129

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228  
|||:||||:|||||  
Db 2 GGAGUGGGGUGGGAGGAGG 21

RESULT 1289  
US-10-310-914A-296253  
; Sequence 296253, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 296253  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-296253

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228  
|||:||||:|||||  
Db 1 GGAGUGGGGUGGGAGGAGG 20

RESULT 1290  
US-10-310-914A-296296  
; Sequence 296296, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 296296  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-296296

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228  
|||:||||:|||||  
Db 2 GGAGUGGGGUGGGAGGAGG 21

RESULT 1291  
US-10-310-914A-296409  
; Sequence 296409, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 296409  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-296409

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228  
|||:||||:|||||  
Db 1 GGAGUGGGGUGGGAGGAGG 20

RESULT 1292  
US-10-310-914A-296453  
; Sequence 296453, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 296453  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-296453

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228  
|||:||||:|||||  
Db 2 GGAGUGGGGUGGGGAGGAGG 21

RESULT 1293  
US-10-310-914A-296566  
; Sequence 296566, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 296566  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-296566

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228  
|||:||||:|||||  
Db 1 GGAGUGGGGUGGGGAGGAGG 20

RESULT 1294  
US-10-310-914A-296611  
; Sequence 296611, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 296611  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-296611

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228

Db 2 GGAGUGGGGUGGGGAGGAGG 21  
|||:||||:|||||  
RESULT 1295  
US-10-310-914A-296726  
; Sequence 296726, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 296726  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-296726

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228  
|||:||||:|||||  
Db 1 GGAGUGGGGUGGGGAGGAGG 20

RESULT 1296  
US-10-310-914A-296768  
; Sequence 296768, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 296768  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-296768

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228  
|||:||||:|||||  
Db 2 GGAGUGGGGUGGGGAGGAGG 21

RESULT 1297  
US-10-310-914A-296884  
; Sequence 296884, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 296884  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-296884

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGGAGG 228

; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 296884  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-296884

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGAGG 228  
|||:||||:|||||  
Db 1 GGAGUGGGUGGGGAGG 20

RESULT 1298  
US-10-310-914A-296929  
; Sequence 296929, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 296929  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-296929

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGAGG 228  
|||:||||:|||||  
Db 2 GGAGUGGGUGGGGAGG 21

RESULT 1299  
US-10-310-914A-297041  
; Sequence 297041, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 297041  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-297041

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGAGG 228  
|||:||||:|||||

Db 1 GGAGUGGGUGGGGAGG 20  
RESULT 1300  
US-10-310-914A-297084  
; Sequence 297084, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 297084  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-297084

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGAGG 228  
|||:||||:|||||  
Db 2 GGAGUGGGUGGGGAGG 21

RESULT 1301  
US-10-310-914A-297197  
; Sequence 297197, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 297197  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-297197

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGAGG 228  
|||:||||:|||||  
Db 1 GGAGUGGGUGGGGAGG 20

RESULT 1302  
US-10-310-914A-297243  
; Sequence 297243, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 297243  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-297243

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGAGG 228  
|||:||||:|||||  
Db 2 GGAGUGGGUGGGAGGAGG 21

## RESULT 1303

US-10-310-914A-297359  
; Sequence 297359, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 297359  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-297359

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGAGG 228  
|||:||||:|||||  
Db 1 GGAGUGGGUGGGAGGAGG 20

## RESULT 1304

US-10-310-914A-297408  
; Sequence 297408, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 297408  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-297408

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGAGG 228  
|||:||||:|||||  
Db 2 GGAGUGGGUGGGAGGAGG 21

## RESULT 1305

US-10-310-914A-297538  
; Sequence 297538, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 297538  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-297538

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGAGG 228  
|||:||||:|||||  
Db 1 GGAGUGGGUGGGAGGAGG 20

## RESULT 1306

US-10-310-914A-297590  
; Sequence 297590, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 297590  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-297590

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGAGG 228  
|||:||||:|||||  
Db 2 GGAGUGGGUGGGAGGAGG 21

## RESULT 1307

US-10-310-914A-297703  
; Sequence 297703, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402



; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 297703  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-297703

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGAGG 228  
|||:||||:|||||  
Db 1 GGAGUGGGUGGGGAGG 20

## RESULT 1308

US-10-310-914A-297749  
; Sequence 297749, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 297749  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-297749

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGAGG 228  
|||:||||:|||||  
Db 2 GGAGUGGGUGGGGAGG 21

## RESULT 1309

US-10-310-914A-297861  
; Sequence 297861, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 297861  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-297861

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGAGG 228  
|||:||||:|||||  
Db 1 GGAGUGGGUGGGGAGG 20

## RESULT 1310

US-10-310-914A-297905  
; Sequence 297905, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 297905  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-297905

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 80.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGAGG 228  
|||:||||:|||||  
Db 2 GGAGUGGGUGGGGAGG 21

## RESULT 1311

US-10-310-914A-301389/c  
; Sequence 301389, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 301389  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-301389

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 1.3e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGCGGC 663  
|||||:|||||  
Db 21 GCAGCAGCAGCAGCAGCAGC 2

## RESULT 1312

US-10-310-914A-301569/c  
; Sequence 301569, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 301569  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-301569

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 1.3e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGGG 672  
||| ||||| ||||| |||||  
Db 21 GCGCGCGCGCGCGGG 2

## RESULT 1313

US-10-310-914A-305978/c  
; Sequence 305978, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 305978  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-305978

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 1.3e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCAGCAGCGG 663  
||| ||||| ||||| |||||  
Db 21 GCAGCAGCAGCAGCAGC 2

## RESULT 1314

US-10-310-914A-305979/c  
; Sequence 305979, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 305979  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-305979

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 1.3e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCAGCAGCGG 663  
||| ||||| ||||| |||||  
Db 21 GCAGCAGCAGCAGCAGC 2

## RESULT 1315

US-10-310-914A-305980/c  
; Sequence 305980, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 305980  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-305980

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 1.3e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCAGCAGCGG 663  
||| ||||| ||||| |||||  
Db 21 GCAGCAGCAGCAGCAGC 2

## RESULT 1316

US-10-310-914A-305981/c  
; Sequence 305981, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 305981  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-305981

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 1.3e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCAGCAGCGG 663  
||| ||||| ||||| |||||  
Db 21 GCAGCAGCAGCAGCAGC 2

## RESULT 1317

US-10-310-914A-324425/c  
; Sequence 324425, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 324425

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; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-324425

Query Match      0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGCGCGGC 675
    |||||
Db 21 GAAGCGCGCGCGCGCGGC 2

RESULT 1318
US-10-310-914A-326630/c
; Sequence 326630, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 326630
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-326630

Query Match      0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 647 GCAGCGCGCAGCAGCGCGGC 666
    |||||
Db 21 GCAGCGCGCGCAGCGGAGC 2

RESULT 1319
US-10-310-914A-333262/c
; Sequence 333262, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 333262
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-333262

Query Match      0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 208 GCGGGTGGGGTGGGGGAG 227
    |||||
Db 21 GGTGGTGGGGTGGGGGGG 2

RESULT 1320
```

```
US-10-310-914A-338999/c
; Sequence 338999, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 338999
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-338999

Query Match      0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2677 CTTTCATGGATTGTTCTTCT 2696
    |||||
Db 20 CTTTCGTTGGATTGTTTCT 1

RESULT 1321
US-10-310-914A-342337
; Sequence 342337, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 342337
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-342337

Query Match      0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 655 AGCAGCGCGCGCGCGGGG 674
    |||||
Db 2 AGCAGCGCGCGCGCGGCG 21

RESULT 1322
US-10-310-914A-370333/c
; Sequence 370333, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 370333
; LENGTH: 21
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; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-370333

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 660 CGCGCGCGCGCGGGTGTG 679
      ||||| ||||| ||||| |||||
Db 21 CGCGCGCGCGCGGGCTGAG 2

RESULT 1323
US-10-310-914A-394386
; Sequence 394386, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 394386
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-394386

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGCGAGCAGCGCGCGCGC 659
      ||||| ||||| ||||| |||||
Db 1 GCGCGCGCGCGCGCGCGC 20

RESULT 1324
US-10-310-914A-399097
; Sequence 399097, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 399097
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-399097

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGCGAGCAGCGCGCGCGC 659
      ||||| ||||| ||||| |||||
Db 1 GCGCGCGCGCGCGCGCGC 20

RESULT 1325
US-10-310-914A-424311/c
; Sequence 424311, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 424311
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-424311

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 888 GAGCCCGGACGGGGCGGGG 907
      ||||| ||||| ||||| |||||
Db 21 GAGCCGGGCGGGGGCGGGG 2

RESULT 1326
US-10-310-914A-425478/c
; Sequence 425478, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 425478
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-425478

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2645 CTCTGCCACCCCTGTTTCCC 2664
      ||||| ||||| ||||| |||||
Db 21 CTCTGCCACCCCTGGCTCCC 2

RESULT 1327
US-10-310-914A-427454
; Sequence 427454, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 427454
; LENGTH: 21
; TYPE: RNA
```

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; ORGANISM: Human
US-10-310-914A-427454

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 85.0%; Pred. No. 1.3e+03;
Matches 17; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGGTGGGGGGG 225
      ||||| ||||| |||||
Db 1 GGGUGGGGGGGGUGGGGGGG 20

RESULT 1328
US-10-310-914A-430450
; Sequence 430450, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 430450
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-430450

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGCGGG 672
      ||||| ||||| |||||
Db 1 GCGGGCGCGCGCGCGCGGG 20

RESULT 1329
US-10-310-914A-437516
; Sequence 437516, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 437516
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-437516

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 80.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 202 CCCCGGGGGGGTGGGTGGG 221
      ||||| ||||| |||||
Db 1 CCCAGGGAGGGUGGGUGGG 20

RESULT 1330
US-10-310-914A-447398
; Sequence 447398, Application US/10310914A
```

```
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 447398
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-447398

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 643 GCAGCAGCGCGCGCGCGG 662
      ||||| ||||| |||||
Db 1 GCAGCAGCGCGCGCGCGG 20

RESULT 1331
US-10-310-914A-456447/c
; Sequence 456447, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 456447
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-456447

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCGCGCGC 663
      ||||| ||||| |||||
Db 21 GCAGCAGCGCGCGCGCAGC 2

RESULT 1332
US-10-310-914A-456448/c
; Sequence 456448, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 456448
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
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US-10-310-914A-456448
Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGCGGC 663
   ||||| ||||| ||||| ||
Db 21 GCAGCAGCAGCAGCAGCAGC 2

RESULT 1333
US-10-310-914A-456449/c
; Sequence 456449, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 456449
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-456449

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGCGGC 663
   ||||| ||||| ||||| ||
Db 21 GCAGCAGCAGCAGCAGCAGC 2

RESULT 1334
US-10-310-914A-463162/c
; Sequence 463162, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 463162
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-463162

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCAGCGGCAGCAGCGGC 675
   ||||| ||||| ||||| ||
Db 21 GCAGCAGCGGCAGCAGCGGC 2

RESULT 1335
US-10-310-914A-463786/c
; Sequence 463786, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 463786
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-463786

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGCGGC 663
   ||||| ||||| ||||| ||
Db 21 GCAGCAGCAGCAGCAGCAGC 2

RESULT 1336
US-10-310-914A-463787/c
; Sequence 463787, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 463787
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-463787

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGCGGC 663
   ||||| ||||| ||||| ||
Db 21 GCAGCAGCAGCAGCAGCAGC 2

RESULT 1337
US-10-310-914A-463788/c
; Sequence 463788, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 463788
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-463788

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```
Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCAGCAGCGC 663
Db 21 GCAGCAGCGCGCAGCAGCAGC 2

RESULT 1338
US-10-310-914A-468808/c
; Sequence 468808, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 468808
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-468808

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 220 GGGGGGAGCGCGGCGCAGCAG 239
Db 20 GGAGGGAGGGGGGCGCAGAG 1

RESULT 1339
US-10-310-914A-476174/c
; Sequence 476174, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 476174
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-476174

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 283 CTCACCACTCTCTCTCTCTCT 302
Db 20 CTCACCTCTCTCTCTCTCTCTCT 1

RESULT 1340
US-10-310-914A-483422/c
; Sequence 483422, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
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```
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 483422
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-483422
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```
Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

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QY 644 GCAGCAGCGCGCAGCAGCGC 663
Db 21 GCAGCAGCGCGCAGCAGCAGC 2
```

```
RESULT 1341
US-10-310-914A-483423/c
; Sequence 483423, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 483423
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-483423
```

```
Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 644 GCAGCAGCGCGCAGCAGCGC 663
Db 21 GCAGCAGCGCGCAGCAGCAGC 2
```

```
RESULT 1342
US-10-310-914A-483424/c
; Sequence 483424, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 483424
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-483424
```





```
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGCGG 672
    |||||
Db 21 GCAGCAGCGCGCGCGCTGG 2

RESULT 1348
US-10-310-914A-508535/c
; Sequence 508535, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 508535
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-508535

Query Match 0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GCAGCAGCGCGCGCGCGG 671
    |||||
Db 21 GCGCGCGCGCGCGCGCGG 2

RESULT 1349
US-10-310-914A-516154
; Sequence 516154, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 516154
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-516154

Query Match 0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGCGCAGCAGCGCGCGCGC 669
    |||||
Db 2 GCGCGCGCGCGCGCGCGCGC 21

RESULT 1350
US-10-310-914A-51719/c
; Sequence 51719, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
```

```
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 51719
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-51719

Query Match 0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGCGGC 675
    |||||
Db 21 GGAGCGCGCGCGCGCGCGC 2

RESULT 1351
US-10-310-914A-519023/c
; Sequence 519023, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 519023
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-519023

Query Match 0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGCGCGG 671
    |||||
Db 20 GGCAACAGCGCGCGCGTCGG 1

RESULT 1352
US-10-310-914A-519403
; Sequence 519403, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 519403
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-519403

Query Match 0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGCGCAGCAGCGCGCGCGC 669
    |||||
Db 2 GCGCGCGCGCGCGCGCGCGC 21

RESULT 1350
US-10-310-914A-51719/c
; Sequence 51719, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
```

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GCAGCAGCGCGCGCGCGG 671  
||| ||||| ||||| |||||

Db 2 GCGCGCAGCGCGCGCGGCGG 21

## RESULT 1353

US-10-310-914A-545432  
; Sequence 545432, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 545432

; LENGTH: 21

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-545432

Query Match 0.6%; Score 16.8; DB 1; Length 21;

Best Local Similarity 90.0%; Pred. No. 1.3e+03;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGCGG 672  
||| ||||| ||||| |||||

Db 1 GCGCGCGCGCGCGCGCGG 20

## RESULT 1354

US-10-310-914A-547175/c  
; Sequence 547175, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 547175

; LENGTH: 21

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-547175

Query Match 0.6%; Score 16.8; DB 1; Length 21;

Best Local Similarity 90.0%; Pred. No. 1.3e+03;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGCGG 672  
||| ||||| ||||| |||||

Db 21 GCGCGCGCGCGCGCGCGG 2

## RESULT 1355

US-10-310-914A-548421/c  
; Sequence 548421, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 548421  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-548421

Query Match 0.6%; Score 16.8; DB 1; Length 21;

Best Local Similarity 90.0%; Pred. No. 1.3e+03;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGGCGG 675  
||| ||||| ||||| |||||

Db 20 GCGCGCGCGCGCGCGCGG 1

## RESULT 1356

US-10-310-914A-549686/c  
; Sequence 549686, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 549686

; LENGTH: 21

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-549686

Query Match 0.6%; Score 16.8; DB 1; Length 21;

Best Local Similarity 90.0%; Pred. No. 1.3e+03;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 203 CCCGCGCGCGGTGGGTGGG 222  
||| ||| ||||| |||||

Db 20 CCCGAGCGCGGTGGGTGGG 1

## RESULT 1357

US-10-310-914A-552935/c  
; Sequence 552935, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 552935

; LENGTH: 21

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-552935

Query Match 0.6%; Score 16.8; DB 1; Length 21;

Best Local Similarity 90.0%; Pred. No. 1.3e+03;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 660 CGCGCGCGCGCGCGGTGTG 679  
Db 21 CGCGCGCGCGCGCGCGGTG 2

## RESULT 1358

US-10-310-914A-556792/c  
; Sequence 556792, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 556792  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-556792

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 1.3e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 306 CGTCTCCTCCCTCCCGT 325  
Db 20 CTCTCCTCCCTCCCGCT 1

## RESULT 1359

US-10-310-914A-574290/c  
; Sequence 574290, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 574290  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-574290

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 1.3e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGCGG 671  
Db 20 GGCAGCAGCGCGCGCGG 1

## RESULT 1360

US-10-310-914A-583011  
; Sequence 583011, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 583011  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-583011

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 1.3e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 583011  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-583011

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 1.3e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2368 CAGACAGACAGAAAGCCAGA 2387  
Db 2 CAGACAGACAGAAAGCCACA 21

## RESULT 1361

US-10-310-914A-608029/c  
; Sequence 608029, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 608029  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-608029

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 1.3e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 214 GGGGTGGGGGAGGAGGAGG 233  
Db 21 GGGGTGGGGGAGGAGGAGG 2

## RESULT 1362

US-10-310-914A-609386/c  
; Sequence 609386, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 609386  
; LENGTH: 21  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-609386

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 1.3e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2151 CAAGAAGGCAGCTGCCTGCT 2170  
|||  
db 21 CAGGAAGGCAGCTGTCTGCT 2

```

RESULT 1363
US-10-310-914A-616562
; Sequence 615662, Application US/10310914A
; Publication NO. US2006000322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kynzat
; TITLE OF INVENTION: Bioinformatically determined
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: Patent in version 3.3
; SEQ ID NO 616562
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-616562

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Query Match	0.6%	Score 16.8;	DB 1;	Length 21;
Best Local Similarity	90.0%;	Pred. No. 1.3e+03;		
Matches 18;	Conservative	0;	Mismatches 2;	Indels 0;
Matches 18;	Conservative	0;	Mismatches 2;	Indels 0;
Matches 18;	Conservative	0;	Mismatches 2;	Indels 0;

Qy 656 GCAGCGCGCGCGCGGGC 675  
db 2 GCAGCGCGCGCAACGGGGC 21

```

RESULT 1364
US-10-310-914A-629548
; Sequence 629548, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kiyazat
; TITLE OF INVENTION: Bioinformatically de
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,91
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 629548
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-629548

```

Query Match	0.6%	Score 16.8;	DB 1;	Length 21;
Best Local Similarity	90.0%;	Pred. No. 1.3e+03;		
Matches 18;	Conservative	0;	Mismatches 2;	Indels 0;
				Gaps 0;

Qy 650 GCGGACGAGCGGCGGCGG 665  
pb 2 GCGGCGGCGGCGGCGGCGG 21

```

RESULT 1365
US-10-310-914A-649223
; Sequence 649223, Application US/10310914A
; Publication No. US2006000332A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlizer, Kvuat
; TITLE OF INVENTION: Bioinformatically de
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPU501

```

```

; CURRENT APPLICATION NUMBER: US/10/310,914A
;
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 649223
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-649223

```

Query Match	0.6%	Score 16.8;	DB 1;	Length 21;
Best Local Similarity	90.0%;	Pred. No. 1.3e+03;		
Matches 18:	Conservative	0;	Mismatches 2;	Indels 0;
				Gaps 0;

Qy 650 GCGGCAGCAGCGGCGCGGC 669  
pb 1 GAGGCAGCGCGCGCGCGGC 20

```

RESULT 1366
US-10-310-914A-656119/c
; Sequence 656119, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kouzat
; TITLE OF INVENTION: Bioinformatically de
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,91
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: Patent in version 3.3
; SEQ ID NO 656119
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-656119

```

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 1.3e+03;  
Matches 18: Conservative 0; Mismatches 2; Indels

Qy 206 GGGGGGTGGGTGGGGG 225  
Db 21 GTGGGGTGGGTGGGGTG 2

```

RESULT 1367
US-10-310-914A-670369/c
; Sequence 670369, Application US/10310914A
; Publication No. US2006000322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuizat
; TITLE OF INVENTION: Bioinformatically de
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1389402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 670369
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-670369

```

Query Match 0.6%; Score 16.8; DB 1; Length 21;  
Best Local Similarity 90.0%; Pred. No. 1.3e+03;  
Matches 18; Conservative 0; Mismatches 2; Indels

QY 656 GCAGCGGCGGCGGGGC 675





```
RESULT 1378
US-10-310-914A-79811/c
; Sequence 79811, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 79811
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-79811
Query Match 0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GCGCAGCGCGCGCGCGCG 671
Db 21 GCGCGCGCGCGCGCGCGCG 2

RESULT 1379
US-10-310-914A-807623
; Sequence 807623, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 807623
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-807623
Query Match 0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 85.0%; Pred. No. 1.3e+03;
Matches 17; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 657 CAGCGCGCGCGCGCGGCT 676
Db 1 CCGCGCGCGCGCGCGGCU 20

RESULT 1380
US-10-310-914A-807632
; Sequence 807632, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 807632
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-807632
Query Match 0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669
Db 1 GAGGCAGCGCGCGCGCGCGC 20

SOFTWARE: PatentIn version 3.3
; SEQ ID NO 807632
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-807632
Query Match 0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669
Db 2 GCGGCAGCGCGCGCGCGCGC 21

RESULT 1381
US-10-310-914A-816520/c
; Sequence 816520, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 816520
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-816520
Query Match 0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGCGG 672
Db 21 GCGCGCGCGCGCGCGCGG 2

RESULT 1382
US-10-310-914A-819695
; Sequence 819695, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 819695
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-819695
Query Match 0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGCGC 669
Db 1 GAGGCAGCGCGCGCGCGCGC 20
```

```
RESULT 1383
US-10-310-914A-831665
; Sequence 831665, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 831665
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-831665

Query Match      0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 85.0%; Pred. No. 1.3e+03;
Matches 17; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      215 GGGTGGGGGGGAGGCGAGGGG 234
Db      1 GGGUGGAGGAGAGGCGAGGGG 20

RESULT 1384
US-10-310-914A-831666
; Sequence 831666, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 831666
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-831666

Query Match      0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 85.0%; Pred. No. 1.3e+03;
Matches 17; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      215 GGGTGGGGGGGAGGCGAGGGG 234
Db      1 GGGUGGAGGAGAGGCGAGGGG 20

RESULT 1385
US-10-310-914A-84199/c
; Sequence 84199, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
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; SEQ ID NO 84199
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-84199

Query Match      0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      651 CGGCAGCAGCGCGCGCGCG 670
Db      21 CGCGCGCAGCGCGCGCGCG 2

RESULT 1386
US-10-310-914A-851324/c
; Sequence 851324, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 851324
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-851324

Query Match      0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      651 CGGCAGCAGCGCGCGCGCG 670
Db      21 CGGCAGCAGCTCGCGCGCGG 2

RESULT 1387
US-10-310-914A-872020/c
; Sequence 872020, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 872020
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-872020

Query Match      0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      652 GGCAGCAGCGCGCGCGCGGG 671
Db      21 GCGCGCGCGCGCGCGCGGG 2
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US-10-310-914A-880040
; Sequence 880040, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 880040
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-880040
Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 75.0%; Pred. No. 1.3e+03;
Matches 15; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY      282 CCTCCACCACTCTCTCTCC 301
Db      2 CCUCCACCGCCUCCUCCGCC 21

RESULT 1394
US-10-310-914A-891040/c
; Sequence 891040, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 891040
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-891040
Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      2080 CAGCCCCCTGGCCTCGGCCCC 2099
Db      20 CAGCCCCAGGCCCGGCCCC 1

RESULT 1395
US-10-310-914A-89459/c
; Sequence 89459, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 89459
; LENGTH: 21
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; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-89459
Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      644 GCAGCAGCGGCGAGCGCGGC 663
Db      21 GCAGCAGCGAGCAGCAGCAGC 2

RESULT 1396
US-10-310-914A-908425
; Sequence 908425, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 908425
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-908425
Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      650 GCGGCAGCAGCGCGCGCGGC 669
Db      1 GCGGCAGCGCGCGCGCGCGGC 20

RESULT 1397
US-10-310-914A-908459
; Sequence 908459, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 908459
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-908459
Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      650 GCGGCAGCAGCGCGCGCGGC 669
Db      2 GCGGCAGCGCGCGCGCGCGGC 21

RESULT 1398
US-10-310-914A-911460/c
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; Sequence 911460, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 911460
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-911460

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 273 CCTCTCTCTCTCCACCACC 292
Db 20 CCTCTCTCTCTCTCTCTCTCT 1

RESULT 1399
US-10-310-914A-918188/c
; Sequence 918188, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 918188
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-918188

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGCG 670
Db 21 CGGCAGCAGCGCGCGCGCGCG 2

RESULT 1400
US-10-310-914A-950371/c
; Sequence 950371, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 950371
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-950371
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; ORGANISM: Human
US-10-310-914A-950371

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCAGCAGCGGC 663
Db 21 GCAGCAGCGCAGCAGCAGCAGC 2

RESULT 1401
US-10-310-914A-950372/c
; Sequence 950372, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 950372
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-950372

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCAGCAGCGGC 663
Db 21 GCAGCAGCGCAGCAGCAGCAGC 2

RESULT 1402
US-10-310-914A-956038
; Sequence 956038, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 956038
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-956038

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 85.0%; Pred. No. 1.3e+03;
Matches 17; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 657 CAGCGCGCGCGCGCGCGGCT 676
Db 1 CUGCGCGCGCGCGCGCGCGCU 20

RESULT 1403
US-10-310-914A-956053
; Sequence 956053, Application US/10310914A
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; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 956053
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-956053

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      650 GCGGCGGCGGCGGCGGCG 669
Db      2 GCGGCGGCGGCGGCGGCG 21

RESULT 1404
US-10-310-914A-997342
; Sequence 997342, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 997342
; LENGTH: 21
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-997342

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 80.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      209 GGGGTGGGTGGGGGGGAGG 228
Db      1 GGUGUGGGUGGAGGGAGG 20

RESULT 1405
US-10-770-726-10997/c
; Sequence 10997, Application US/10770726
; Publication No. US20050266409A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Brown, Eugene
; APPLICANT: Liu, Wei
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING, PREVENTING, AND TREATING
; TITLE OF INVENTION: CANCERS
; FILE REFERENCE: AM101079 (031896-010000)
; CURRENT APPLICATION NUMBER: US/10/770,726
; CURRENT FILING DATE: 2004-02-04
; NUMBER OF SEQ ID NOS: 48640
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 10997
; LENGTH: 21
; TYPE: DNA
```

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; ORGANISM: Homo sapiens
US-10-770-726-10997

Query Match          0.6%; Score 16.8; DB 1; Length 21;
Best Local Similarity 90.0%; Pred. No. 1.3e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      284 TTCACACCTCTCTCTCTT 303
Db      21 TCTCCACCTCTCTCTCCAT 2

RESULT 1406
US-10-310-914A-1041650/c
; Sequence 1041650, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1041650
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1041650

Query Match          0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      206 GGGGGGTGGGGTGGGG 223
Db      18 GCGGGGGTGGGGTGGGG 1

RESULT 1407
US-10-310-914A-1045863/c
; Sequence 1045863, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1045863
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1045863

Query Match          0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      209 GGGGTGGGTGGGGGGGA 226
Db      18 GGGGTGGGTGGGGGAGA 1

RESULT 1408
US-10-310-914A-1157454/c
; Sequence 1157454, Application US/10310914A
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; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1157454
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1157454

Query Match          0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 643 GGCAGCAGCGGCGAGCAGC 660
Db 18 GGCAGCAGCAGCAGCAGC 1

RESULT 1409
US-10-310-914A-116696
; Sequence 116696, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 116696
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-116696

Query Match          0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 44.4%; Pred. No. 9.9e+02;
Matches 8; Conservative 9; Mismatches 1; Indels 0; Gaps 0;

QY 2513 TCTGTTCTACTGTACATT 2530
Db 1 UCUGUUUACUGACAUU 18

RESULT 1410
US-10-310-914A-118040/c
; Sequence 118040, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 118040
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
```

```
US-10-310-914A-118040

Query Match          0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 207 GGGGGGTGGGTGGGGG 224
Db 18 GGAGGGTGGGTGGGGG 1

RESULT 1411
US-10-310-914A-1185121/c
; Sequence 1185121, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1185121
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1185121

Query Match          0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2741 GCCCCTCCAGCTGGGTGG 2758
Db 18 GCCCCTCCGGTGGGTGG 1

RESULT 1412
US-10-310-914A-1209757/c
; Sequence 1209757, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1209757
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1209757

Query Match          0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 276 CCTCTCTCTCCACCACCT 293
Db 18 CCTCGCCTCCACCACCT 1

RESULT 1413
US-10-310-914A-1219741/c
; Sequence 1219741, Application US/10310914A
; Publication No. US20060003322A1
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```
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1219741
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1219741

Query Match          0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 288 CCACCTCCTCTCTCTCT 305
   ||| ||||| ||||| |||
Db 18 CCTCCTCTCTCTCTCTCT 1

RESULT 1414
US-10-310-914A-1253235
; Sequence 1253235, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1253235
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1253235

Query Match          0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 657 CAGCGCGCGCGCGCGGG 674
   ||| ||||| ||||| |||
Db 1 CAGCGCGCGCGCGCGGG 18

RESULT 1415
US-10-310-914A-1295958/c
; Sequence 1295958, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1295958
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1295958
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```
Query Match          0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 651 CGCGCAGCAGCGCGCGGG 668
   ||| ||||| ||||| |||
Db 18 CGCGCGCAGCGCGCGGG 1

RESULT 1416
US-10-310-914A-1319114/c
; Sequence 1319114, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1319114
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1319114

Query Match          0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 293 TCCTCCTCTCTCTCTCT 310
   ||| ||||| ||||| |||
Db 18 TCCTCCTCTCTCTCTCT 1

RESULT 1417
US-10-310-914A-1330686/c
; Sequence 1330686, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1330686
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1330686

Query Match          0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 647 GCAGCGCGCAGCGCGGG 664
   ||| ||||| ||||| |||
Db 18 GCAGCGCGCAGCGCGGG 1

RESULT 1418
US-10-310-914A-1330687/c
; Sequence 1330687, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
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; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1330687
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1330687

Query Match      0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 647 GCAGCGCAGCAGCGCG 664
Db 18 GCAGCGCAGCAGCGCG 1

RESULT 1419
US-10-310-914A-1373008
; Sequence 1373008, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1373008
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1373008

Query Match      0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 12; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 266 CCTCTGCTCTCTCTCC 283
Db 1 CCUCCUGCCUCCUCC 18

RESULT 1420
US-10-310-914A-1373190
; Sequence 1373190, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1373190
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1373190
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Query Match      0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 66.7%; Pred. No. 9.9e+02;
Matches 12; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 266 CCTCTGCTCTCTCTCC 283
Db 1 CCUCCUGCCUCCUCC 18

RESULT 1421
US-10-310-914A-138017
; Sequence 138017, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 138017
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-138017

Query Match      0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 642 AGCGCAGCAGCGCGCAG 659
Db 1 AGCGCAGCAGCAGCGCAG 18

RESULT 1422
US-10-310-914A-148796/c
; Sequence 148796, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 148796
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-148796

Query Match      0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCG 668
Db 18 CGGCAGCAGCGCGCGTGG 1

RESULT 1423
US-10-310-914A-189617/c
; Sequence 189617, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
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; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 223350
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-223350

Query Match          0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 890 GCCCGCAGCGGCGGCGG 907
Db 18 GCCCGGCGGCGGCGGCGG 1

RESULT 1429
US-10-310-914A-238181/c
; Sequence 238181, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 238181
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-238181

Query Match          0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGGCGGCGG 668
Db 18 CGGCAGCAGCGGCGGCGG 1

RESULT 1430
US-10-310-914A-248989
; Sequence 248989, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 248989
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-248989

Query Match          0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 72.2%; Pred. No. 9.9e+02;
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```
Matches 13; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 269 CCTGCTCTCTCTCTCTCTCC 286
Db 1 CCUGCCUCCUCCUCCUCC 18

RESULT 1431
US-10-310-914A-261032
; Sequence 261032, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 261032
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-261032

Query Match          0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 658 AGCGCGCGGCGGCGGCGG 675
Db 1 AGCGCGCGGCGGCGGCGG 18

RESULT 1432
US-10-310-914A-301502/c
; Sequence 301502, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 301502
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-301502

Query Match          0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 654 CAGCAGCGGCGGCGGCGG 671
Db 18 CAGAAGCGGCGGCGGCGG 1

RESULT 1433
US-10-310-914A-311513
; Sequence 311513, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
```

; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 311513  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-311513

Query Match 0.6%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 94.4%; Pred. No. 9.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 658 AGCGGCGGCGGCGGCGG 675  
|||||  
Db 1 AGCGGCGGCGGCGGCGG 18

RESULT 1434  
US-10-310-914A-327959  
; Sequence 327959, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 327959  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-327959

Query Match 0.6%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 94.4%; Pred. No. 9.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGGCGGCGGC 669  
|||||  
Db 1 GGCAGCAGCGGCGGCGGC 18

RESULT 1435  
US-10-310-914A-339245/c  
; Sequence 339245, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 339245  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-339245

Query Match 0.6%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 94.4%; Pred. No. 9.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGGCGGCGG 668  
|||||  
Db 18 CGGCAGCAGCGGCGGCGG 1  
RESULT 1436  
US-10-310-914A-342312  
; Sequence 342312, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 342312  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-342312

Query Match 0.6%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 94.4%; Pred. No. 9.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 655 AGCAGCGGCGGCGGCGG 672  
|||||  
Db 1 AGCAGCGGCGGCGGCGG 18

RESULT 1437  
US-10-310-914A-411860/c  
; Sequence 411860, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 411860  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-411860

Query Match 0.6%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 94.4%; Pred. No. 9.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGGCGGCGG 668  
|||||  
Db 18 CGGCAGCAGCGGCGGCGG 1

RESULT 1438  
US-10-310-914A-414674/c  
; Sequence 414674, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 414674  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-414674

Query Match 0.6%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 94.4%; Pred. No. 9.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 414674  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-414674

Query Match 0.6%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 94.4%; Pred. No. 9.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 643 GGCAGCGCGCGCAGCAGC 660  
DB 18 GGCAGCGCGCGCAGCAGC 1

RESULT 1439  
US-10-310-914A-416389/c  
; Sequence 416389, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kruzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 416389  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-416389

Query Match 0.6%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 94.4%; Pred. No. 9.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668  
DB 18 CGGCAGCAGCGCGCGCGG 1

RESULT 1440  
US-10-310-914A-432635/c  
; Sequence 432635, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kruzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 432635  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-432635

Query Match 0.6%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 94.4%; Pred. No. 9.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668  
DB 18 CGGCAGCAGCGCGCGCGG 1

RESULT 1441  
US-10-310-914A-480189  
; Sequence 480189, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kruzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 480189  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-480189

Query Match 0.6%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 9.9e+02;  
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 207 CGCGGGGTGGGTGGGGGG 224  
DB 1 CGCGGGGGGGGUGGGGGG 18

RESULT 1442  
US-10-310-914A-503543/c  
; Sequence 503543, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kruzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 503543  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-503543

Query Match 0.6%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 94.4%; Pred. No. 9.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668  
DB 18 CGGCAGCGCGCGCGCGG 1

RESULT 1443  
US-10-310-914A-540538/c  
; Sequence 540538, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kruzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01

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; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 540538
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-540538

Query Match          0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCAGCAGC 661
Db 18 GCAGCAGCGCGCAGCAG 1

RESULT 1444
US-10-310-914A-548425
; Sequence 548425, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 548425
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-548425

Query Match          0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 9.9e+02;
Matches 15; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 211 GGTGGGGTGGGGGGGAGG 228
Db 1 GGUGGGGUGGUGGGGAGG 18

RESULT 1445
US-10-310-914A-562896/c
; Sequence 562896, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 562896
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-562896

Query Match          0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 651 CGCAGCAGCGCGCGGCGG 668
Db 18 GCAGCAGCGCGCGGCGG 18

RESULT 1446
US-10-310-914A-564551
; Sequence 564551, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 564551
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-564551

Query Match          0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 658 AGCGCGCGCGCGGCGGC 675
Db 1 AGCGCGCGCGCGCGCGC 18

RESULT 1447
US-10-310-914A-587494/c
; Sequence 587494, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 587494
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-587494

Query Match          0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGGCGGG 673
Db 18 GCAGCGCGCGCGGCGGG 18

RESULT 1448
US-10-310-914A-587504/c
; Sequence 587504, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
```

```

; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1398402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 587504
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-587504

```

Query Match 0.6%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 94.4%; Pred. No. 9.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 650 GCGGCAGCAGCGCGCG 667  
Db 18 GCGGCAGCGCGCGCG 1

```

RESULT 1449
US-10-310-914A-632585
; Sequence 632585, Application US/10310914A
; Publication No. US2006000322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically determined
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 632585
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-632585

```

Query Match 0.6%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 72.2%; Pred. No. 9.9e+02;  
Matches 13; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

**Qy**      273 CCTCCTCCTCCTCCACCA 290  
         |||:||||:|:||||  
**Db**      1 CCUCCUCCUUCUCCACCA 18

```

RESULT 1450
US-10-310-914A-640441
; Sequence 640441, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Benitwch, Isaac
; APPLICANT: Shiler, Kuzat
; TITLE OF INVENTION: Bioinformatically det
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 640441
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-640441

```

```
Query Match          0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. NO. 9.9e+02;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

Qy 208 GGGGGTGGGGTGGGGG 225

Db 1 GGGGGUUGGGGGGGGGG 18

RESULT 1451

US-10-310-914A-656140/c

; Sequence 656140, Application US/10310914A

; Publication No. US20060003322A1

Query Match	0.6%	Score 16.4;	DB 1;	Length 18;
Best Local Similarity	94.4%;	Pred. No. 9.9e+02;		
Matches 17;	Conservative	0;	Mismatches 1;	Indels 0;
				Gaps 0;

Qy 206 GGGGGGTGGGTGGGG 223  
| | | | | | | | | |  
Db 18 GTGGGGGTGGGTGGGG 1

```

RESULT 1452
US-10-310-914A-66598
; Sequence 66598, Application US/10310914A
; Publication No. US2006003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kyrat
; TITLE OF INVENTION: Bioinformatically d
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,9
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 66598
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-66598

```

Query Match	0.6%	Score 16.4;	DB 1;	Length 18;
Best Local Similarity	83.3%	Pred. No. 9.9e+02;		
Matches 15;	Conservative	2;	Mismatches 1;	Indels 0;
Gaps 0;				

Qy 208 GGGGTGGGTGGGGG 225  
||| | : ||| : |||  
Db 1 GGGAGUGGGUGGGGG 18

```

RESULT 1453
US-10-310-914A-66601
; Sequence 66601, Application US/10310914A
; Publication No. US2006000322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kiyuzat
; TITLE OF INVENTION: Bioinformatically d
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,9
; CURRENT FILING DATE: 2002-12-06

```

; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 66601  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-66601

Query Match 0.6%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 83.3%; Pred. No. 9.9e+02;  
Matches 15; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 207 GGGGGTGGGTGGGGG 224  
|||:||||:||||  
Db 1 GGGGAGUGGGGUGGGGG 18

## RESULT 1454

US-10-310-914A-681386/c  
; Sequence 681386, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 681386  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-681386

Query Match 0.6%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 94.4%; Pred. No. 9.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 651 CGGCAGCGCGCGCGCG 668  
|||||:|||||:|||||  
Db 18 CGCGCGCAGCGCGCGCG 1

## RESULT 1455

US-10-310-914A-712354  
; Sequence 712354, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 712354  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-712354

Query Match 0.6%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 94.4%; Pred. No. 9.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGCGC 669  
|||||:|||||:|||||  
Db 1 GCGCGCAGCGCGCGCGC 18

## RESULT 1456

US-10-310-914A-756960  
; Sequence 756960, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 756960  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-756960

Query Match 0.6%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 94.4%; Pred. No. 9.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2361 AGAAGACAGACAGACAG 2378  
|||||:|||||:|||||  
Db 1 AGACAGACAGACAGACAG 18

## RESULT 1457

US-10-310-914A-756961  
; Sequence 756961, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 756961  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-756961

Query Match 0.6%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 94.4%; Pred. No. 9.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2361 AGAAGACAGACAGACAG 2378  
|||||:|||||:|||||  
Db 1 AGACAGACAGACAGACAG 18

## RESULT 1458

US-10-310-914A-756962  
; Sequence 756962, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 756962  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-756962

Query Match 0.6%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 94.4%; Pred. No. 9.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2361 AGAAGACAGACAGACAG 2378  
||| ||||| ||||| |||||  
Db 1 AGACAGACAGACAGACAG 18

## RESULT 1459

US-10-310-914A-756963  
; Sequence 756963, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 756963

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-756963

Query Match 0.6%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 94.4%; Pred. No. 9.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2361 AGAAGACAGACAGACAG 2378  
||| ||||| ||||| |||||  
Db 1 AGACAGACAGACAGACAG 18

## RESULT 1460

US-10-310-914A-756964  
; Sequence 756964, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 756964

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-756964

Query Match 0.6%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 94.4%; Pred. No. 9.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2361 AGAAGACAGACAGACAG 2378  
||| ||||| ||||| |||||  
Db 1 AGACAGACAGACAGACAG 18

## RESULT 1461

US-10-310-914A-756965  
; Sequence 756965, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 756965

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-756965

Query Match 0.6%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 94.4%; Pred. No. 9.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2361 AGAAGACAGACAGACAG 2378  
||| ||||| ||||| |||||  
Db 1 AGACAGACAGACAGACAG 18

## RESULT 1462

US-10-310-914A-756966  
; Sequence 756966, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 756966

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-756966

Query Match 0.6%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 94.4%; Pred. No. 9.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2361 AGAAGACAGACAGACAG 2378  
||| ||||| ||||| |||||  
Db 1 AGACAGACAGACAGACAG 18

## RESULT 1463

US-10-310-914A-795826  
; Sequence 795826, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 795826  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-795826

Query Match 0.6%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 66.7%; Pred. No. 9.9e+02;  
Matches 12; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 269 CCGGCTCTCCCTCCCTCC 286  
||:||||:|:|:|:|:|:|:|:|  
Db 1 CCUGCCUCCUCCUACUCC 18

## RESULT 1464

US-10-310-914A-79757/c  
; Sequence 79757, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 79757  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-79757

Query Match 0.6%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 94.4%; Pred. No. 9.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668  
|||||:|||||:|||||:|||||  
Db 18 CGGCAGCGCGCGCGCGCG 1

## RESULT 1465

US-10-310-914A-79758/c  
; Sequence 79758, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 79758  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-79758

Query Match 0.6%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 94.4%; Pred. No. 9.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668  
|||||:|||||:|||||:|||||  
Db 18 CGGCAGCGCGCGCGCGCG 1

## RESULT 1466

US-10-310-914A-79763/c  
; Sequence 79763, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 79763  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-79763

Query Match 0.6%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 94.4%; Pred. No. 9.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668  
|||||:|||||:|||||:|||||  
Db 18 CGGCAGCGCGCGCGCGCG 1

## RESULT 1467

US-10-310-914A-79764/c  
; Sequence 79764, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 79764  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-79764

Query Match 0.6%; Score 16.4; DB 1; Length 18;  
Best Local Similarity 94.4%; Pred. No. 9.9e+02;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668  
|||||:|||||:|||||:|||||  
Db 18 CGGCAGCGCGCGCGCGCG 1

## RESULT 1468

US-10-310-914A-812717/c  
; Sequence 812717, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 812717



```
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-812717

Query Match      0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1849 ATGCCCAAGCAGAAGCTT 1866
    |||||
Db 18 ATGCCCAAGCAGAAGCTT 1

RESULT 1469
US-10-310-914A-858356/c
; Sequence 858356, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 858356
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-858356

Query Match      0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 651 CGCGCGCAGCGCGCGG 668
    |||||
Db 18 CGCGCGCAGCGCGCGG 1

RESULT 1470
US-10-310-914A-88232
; Sequence 88232, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 88232
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-88232

Query Match      0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGG 673
    |||||
Db 1 GCAGCGCGCGCGCGG 18

RESULT 1471
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US-10-310-914A-89188
; Sequence 89188, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 89188
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-89188

Query Match      0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 652 GCACGACGCGCGCGG 669
    |||||
Db 1 GCACGCGCGCGCGG 18

RESULT 1472
US-10-310-914A-895585
; Sequence 895585, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 895585
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-895585

Query Match      0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 9.9e+02;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 211 GGTGGGTGGCGGGGAGG 228
    |||||
Db 1 GGUGGGGGGGGGGAGG 18

RESULT 1473
US-10-310-914A-899514/c
; Sequence 899514, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 899514
; LENGTH: 18
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; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-899514

Query Match      0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGCGG 673
Db 18 GCAGCGCGCGCGCGCGG 1

RESULT 1474
US-10-310-914A-899515/c
; Sequence 899515, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 899515
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-899515

Query Match      0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGCGG 673
Db 18 GCAGCGCGCGCGCGCGG 1

RESULT 1475
US-10-310-914A-900556
; Sequence 900556, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 900556
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-900556

Query Match      0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCAGCGG 661
Db 1 GCAGCAGCGCGCAGCGG 18

RESULT 1476
US-10-310-914A-917307
; Sequence 917307, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 917307
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-917307

Query Match      0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 72.2%; Pred. No. 9.9e+02;
Matches 13; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 266 CCTCCTGCCTCCTCCTCC 283
Db 1 CCUCCUGCCUCCCCCUCC 18

RESULT 1477
US-10-310-914A-924547
; Sequence 924547, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 924547
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-924547

Query Match      0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 44.4%; Pred. No. 9.9e+02;
Matches 8; Conservative 9; Mismatches 1; Indels 0; Gaps 0;

QY 10 TCTGCTTTCTCGGGTGG 27
Db 1 UAUGUCUUUCUGGGGUUG 18

RESULT 1478
US-10-310-914A-947622/c
; Sequence 947622, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 947622
; LENGTH: 18
; TYPE: RNA
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; ORGANISM: Human
US-10-310-914A-947622

Query Match          0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 207 GGGGGGTGGGTGGGGG 224
    || ||||| ||||| |||||
Db 18 GGAGGGTGGGTGGGGG 1

RESULT 1479
US-10-310-914A-950350/c
; Sequence 950350, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 950350
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-950350

Query Match          0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 654 CAGCAGCGCGCGCGG 671
    || ||||| ||||| |||||
Db 18 CAGAAGCGCGCGCGG 1

RESULT 1480
US-10-310-914A-967163
; Sequence 967163, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 967163
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-967163

Query Match          0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 645 CAGCAGCGCGCAGCGG 662
    ||||| ||||| |||||
Db 1 CAGCAGCGCGCAGCGG 18

RESULT 1481
US-10-310-914A-969291/c
; Sequence 969291, Application US/10310914A
```

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; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 969291
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-969291

Query Match          0.6%; Score 16.4; DB 1; Length 18;
Best Local Similarity 94.4%; Pred. No. 9.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 651 CGGCAGCGCGCGCGG 668
    ||||| ||||| ||||| |||||
Db 18 CGGCAGCGCGCGCGG 1

RESULT 1482
US-10-310-914A-1030604
; Sequence 1030604, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1030604
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1030604

Query Match          0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 83.3%; Pred. No. 1.1e+03;
Matches 15; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGTGGGGG 223
    ||||| ||||| ||||| |||||
Db 2 GCGGGGGUGGGUGGGGG 19

RESULT 1483
US-10-310-914A-1033921
; Sequence 1033921, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1033921
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
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Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 651 CGGCAGCGCGCGCGG 668
    ||||| ||||| ||||| |||||
Db 2 CGGCAGCGCGCGCGG 19

RESULT 1489
US-10-310-914A-1169107/c
; Sequence 1169107, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1169107
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1169107

Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2251 CCAGTGCTCCACACCTGT 2268
    ||||| ||||| ||||| |||||
Db 19 CCAGTGGCTCACACCTGT 2

RESULT 1490
US-10-310-914A-1198875
; Sequence 1198875, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1198875
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1198875

Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 66.7%; Pred. No. 1.1e+03;
Matches 12; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 289 CACCTCCCTCCTCTTC 306
    ||||| :||| :||| :|||
Db 1 CACCUCCUCCUCCUCC 18

RESULT 1491
US-10-310-914A-120331/c
; Sequence 120331, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 120331
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-120331

Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGG 670
    ||||| ||||| ||||| |||||
Db 18 GCAGCAGCGCGCGCGG 1

RESULT 1492
US-10-310-914A-120602
; Sequence 120602, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 120602
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-120602

Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 649 AGCGCAGCAGCGCGG 666
    ||||| ||||| ||||| |||||
Db 2 AGCGCAGCAGCGCGG 19

RESULT 1493
US-10-310-914A-1232407
; Sequence 1232407, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1232407
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1232407
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```
Query Match          0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 88.9%; Pred. No. 1.1e+03;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGCGCGCGGCT 676
    |||||
Db 1 GCGGCGCGCGCGGCGCU 18

RESULT 1494
US-10-310-914A-1258176
; Sequence 1258176, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1258176
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1258176

Query Match          0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 61.1%; Pred. No. 1.1e+03;
Matches 11; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 288 CCACCTCCTCCTCTCT 305
    |||||
Db 1 CCACCUCCUCCUCCU 18

RESULT 1495
US-10-310-914A-1263726/c
; Sequence 1263726, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1263726
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1263726

Query Match          0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 288 CCACCTCCTCCTCTCT 305
    |||||
Db 18 CCTCCTCCTCCTCTCT 1

RESULT 1496
US-10-310-914A-1319112/c
; Sequence 1319112, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
```

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```
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1319112
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1319112

Query Match          0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 288 CCACCTCCTCCTCTCT 305
    |||||
Db 18 CCTCCTCCTCCTCTCT 1

RESULT 1497
US-10-310-914A-133044/c
; Sequence 133044, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 133044
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-133044

Query Match          0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 913 GCAGGCGCGCGGAG 930
    |||||
Db 18 GCAGGCGCGCGGAG 1

RESULT 1498
US-10-310-914A-1373058
; Sequence 1373058, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1373058
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1373058

Query Match          0.6%; Score 16.4; DB 1; Length 19;
```

Best Local Similarity 66.7%; Pred. No. 1.1e+03; Indels 0; Gaps 0;  
Matches 12; Conservative 5; Mismatches 1;

QY 266 CCTCTGCGCTCTCCCTCC 283  
DB 2 CCUCGCGCCUCCUCCUCC 19

RESULT 1499  
US-10-310-914A-167972  
; Sequence 167972, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 167972  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-167972

Query Match 0.6%; Score 16.4; DB 1; Length 19;  
Best Local Similarity 94.4%; Pred. No. 1.1e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 651 CGGCGGCGAGCGGCGGG 668  
DB 1 CGGCGGCGAGCGGCGGG 18

RESULT 1500  
US-10-310-914A-168061  
; Sequence 168061, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 168061  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-168061

Query Match 0.6%; Score 16.4; DB 1; Length 19;  
Best Local Similarity 94.4%; Pred. No. 1.1e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 652 GCGCGGCGGCGGCGGC 669  
DB 2 GCGCGGCGGCGGCGGC 19

RESULT 1501  
US-10-310-914A-169346/c  
; Sequence 169346, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 169346  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-169346

Query Match 0.6%; Score 16.4; DB 1; Length 19;  
Best Local Similarity 94.4%; Pred. No. 1.1e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGGCGGCGGCGGG 673  
DB 18 GCGGCGGCGGCGGCGGG 1

RESULT 1502  
US-10-310-914A-182475  
; Sequence 182475, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 182475  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-182475

Query Match 0.6%; Score 16.4; DB 1; Length 19;  
Best Local Similarity 94.4%; Pred. No. 1.1e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGGCGGCGGCGGG 673  
DB 1 GCGGCGGCGGCGGCGGG 18

RESULT 1503  
US-10-310-914A-197856/c  
; Sequence 197856, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 197856  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-197856

Query Match 0.6%; Score 16.4; DB 1; Length 19;  
Best Local Similarity 94.4%; Pred. No. 1.1e+03;

Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 207 GGGGGTGGGGTGGGGG 224  
|||  
Db 19 GGGGGTGGGGTGGGGG 2

## RESULT 1504

US-10-310-914A-211228/c  
; Sequence 211228, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 211228

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-211228

Query Match 0.6%; Score 16.4; DB 1; Length 19;

Best Local Similarity 94.4%; Pred. No. 1.1e+03;

Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 208 GGGGTGGGTGGGGG 225  
|||  
Db 19 GGGGTGGGTGGGGG 2

## RESULT 1505

US-10-310-914A-215664

; Sequence 215664, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 215664

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-215664

Query Match 0.6%; Score 16.4; DB 1; Length 19;

Best Local Similarity 66.7%; Pred. No. 1.1e+03;

Matches 12; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 266 CCTCTGCTCTCTCTCC 283  
|||  
Db 2 CCUCCUCCUCCUCCUCC 19

## RESULT 1506

US-10-310-914A-223378/c

; Sequence 223378, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 223378

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-223378

Query Match 0.6%; Score 16.4; DB 1; Length 19;

Best Local Similarity 94.4%; Pred. No. 1.1e+03;

Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 891 CCCGACGGGGGGG 908  
|||  
Db 19 CCCGACGGGGGGG 2

## RESULT 1507

US-10-310-914A-238169/c

; Sequence 238169, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 238169

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-238169

Query Match 0.6%; Score 16.4; DB 1; Length 19;

Best Local Similarity 94.4%; Pred. No. 1.1e+03;

Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGGGGGGGG 673  
|||  
Db 18 GCAGCGGGGGGGG 1

## RESULT 1508

US-10-310-914A-244533

; Sequence 244533, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 244533

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-244533

Query Match 0.6%; Score 16.4; DB 1; Length 19;

Best Local Similarity 94.4%; Pred. No. 1.1e+03;

Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;



QY 652 GCAGCAGCGCGCGCGCG 669  
|||||  
Db 2 GCAGCAACGCGCGCGCGC 19

## RESULT 1509

US-10-310-914A-257829/c  
; Sequence 257829, Application US/10310914A  
; Publication No. US20060003322A1

## ; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 257829

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-257829

## Query Match

Best Local Similarity 0.6%; Score 16.4; DB 1; Length 19;

Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGCGG 673

|||

Db 18 GCGGCGCGCGCGCGGG 1

## RESULT 1510

US-10-310-914A-307078/c  
; Sequence 307078, Application US/10310914A  
; Publication No. US20060003322A1

## ; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 307078

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-307078

## Query Match

Best Local Similarity 0.6%; Score 16.4; DB 1; Length 19;

Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 207 GCGGCGTGGTGGGGGG 224

|||

Db 18 GCGGAGTGGGTGGGGGG 1

## RESULT 1511

US-10-310-914A-339144/c  
; Sequence 339144, Application US/10310914A  
; Publication No. US20060003322A1

## ; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 339144

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-339144

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 339144

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-339144

## Query Match

Best Local Similarity 0.6%; Score 16.4; DB 1; Length 19;

Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 651 CGGCGAGCGCGCGCGG 668

|||

Db 18 CGGCGAGCGCGCGCGG 1

## RESULT 1512

US-10-310-914A-390923/c  
; Sequence 390923, Application US/10310914A  
; Publication No. US20060003322A1

## ; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 390923

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-390923

## Query Match

Best Local Similarity 0.6%; Score 16.4; DB 1; Length 19;

Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGGG 673

|||

Db 18 GCGGCGCGCGCGCGGG 1

## RESULT 1513

US-10-310-914A-391342  
; Sequence 391342, Application US/10310914A  
; Publication No. US20060003322A1

## ; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 391342

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-391342

## Query Match

Best Local Similarity 0.6%; Score 16.4; DB 1; Length 19;

Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 207 GGGGGTGGGTGGGGG 224  
Db 2 GGGGGGUGGGAGGGGG 19

## RESULT 1514

US-10-310-914A-416105  
; Sequence 416105, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 416105  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-416105

Query Match 0.6%; Score 16.4; DB 1; Length 19;  
Best Local Similarity 94.4%; Pred. No. 1.1e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGGCGGCGGGG 673  
Db 1 GCGGCGGCGGCGGGG 18

## RESULT 1515

US-10-310-914A-494558/c  
; Sequence 494558, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 494558  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-494558

Query Match 0.6%; Score 16.4; DB 1; Length 19;  
Best Local Similarity 94.4%; Pred. No. 1.1e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 653 GCAGCGGCGGCGGGG 670  
Db 19 GCAGCTGCGGCGGGG 2

## RESULT 1516

US-10-310-914A-495454/c  
; Sequence 495454, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 495454  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-495454

Query Match 0.6%; Score 16.4; DB 1; Length 19;  
Best Local Similarity 94.4%; Pred. No. 1.1e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 272 GCCTCTCTCTCTCCACC 289  
Db 19 GCCGCTCTCTCTCCACC 2

## RESULT 1517

US-10-310-914A-569201/c  
; Sequence 569201, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 569201  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-569201

Query Match 0.6%; Score 16.4; DB 1; Length 19;  
Best Local Similarity 94.4%; Pred. No. 1.1e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 648 CAGCGGCGAGCGGGG 665  
Db 18 CAGCGGCGAGCGGGG 1

## RESULT 1518

US-10-310-914A-590255/c  
; Sequence 590255, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 590255  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-590255

Query Match 0.6%; Score 16.4; DB 1; Length 19;  
Best Local Similarity 94.4%; Pred. No. 1.1e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGGCGGCGGGG 673

Db 18 GCGGCGGCGCGCGGG 1  
|||||

## RESULT 1519

US-10-310-914A-656126/c  
; Sequence 656126, Application US/10310914A  
; Publication No. US20060003322A1

## GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 656126

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-656126

Query Match 0.6%; Score 16.4; DB 1; Length 19;

Best Local Similarity 94.4%; Pred. No. 1.1e+03;

Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 208 GCGGGTGGGTGGGGGG 225  
|||||

Db 18 GCGGGTGGGTGGGGGTG 1  
|||||

## RESULT 1520

US-10-310-914A-691351/c  
; Sequence 691351, Application US/10310914A  
; Publication No. US20060003322A1

## GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 691351

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-691351

Query Match 0.6%; Score 16.4; DB 1; Length 19;

Best Local Similarity 94.4%; Pred. No. 1.1e+03;

Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGGCGGCGCGGG 673  
|||||

Db 18 GCGGCGGCGGCGCGGG 1  
|||||

## RESULT 1521

US-10-310-914A-707882  
; Sequence 707882, Application US/10310914A  
; Publication No. US20060003322A1

## GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 707882

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-707882

## Query Match

Best Local Similarity 88.9%; Pred. No. 1.1e+03;

Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGGCGGCGGGCT 676  
|||||

Db 1 GCGGCGGCGGCGGCGU 18  
|||||

## RESULT 1522

US-10-310-914A-743691  
; Sequence 743691, Application US/10310914A  
; Publication No. US20060003322A1

## GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 743691

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-743691

## Query Match

Best Local Similarity 88.9%; Pred. No. 1.1e+03;

Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 257 CGCCACCACCTCTGCC 274  
|||||

Db 2 CGCCACCACCTCTGCC 19  
|||||

## RESULT 1523

US-10-310-914A-755243/c  
; Sequence 755243, Application US/10310914A  
; Publication No. US20060003322A1

## GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 755243

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-755243

## Query Match

Best Local Similarity 94.4%; Pred. No. 1.1e+03;

Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 210 GCGTGGGTGGGGGAG 227  
|||||

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Db      18 GCGTGGGGTGGTGGGAG 1
;
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 804905
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-804905

Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1536 CAACGAGTTCCTGCTGCT 1553
Db      19 CAACGAGTTCCTGCTGCT 2

RESULT 1527
US-10-310-914A-890721/c
; Sequence 890721, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 890721
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-890721

Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      901 GCGCGGGGTGGCGCAGGG 918
Db      19 GCGCGGGGTGGCGCAGGG 2

RESULT 1528
US-10-310-914A-89609
; Sequence 89609, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 89609
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-89609

Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 83.3%; Pred. No. 1.1e+03;
Matches 15; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      207 GCGCGGGTGGGTGGGGGG 224
Db      2 GCGCGGGTGGGTGGGGGG 19

Db      18 GCGTGGGGTGGTGGGAG 1
;
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 804905
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-804905

Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      644 GCAGCAGCGGCAGCAGCG 661
Db      19 GCAGCAGCGGCAGCAGCG 2

RESULT 1525
US-10-310-914A-791461/c
; Sequence 791461, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 791461
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-791461

Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      656 GCAGCGCGCGCGCGCGGG 673
Db      18 GCGCGCGCGCGCGCGGG 1

RESULT 1526
US-10-310-914A-804905/c
; Sequence 804905, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
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RESULT 1529
US-10-310-914A-899419/c
; Sequence 899419, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 899419
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-899419
Query Match          0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 654 CAGCAGCGCGCGCGCGG 671
      ||||| ||||| ||||| |||||
DB 18 CAGCGCGCGCGCGCGG 1

RESULT 1530
US-10-310-914A-899686
; Sequence 899686, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 899686
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-899686
Query Match          0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 654 CAGCAGCGCGCGCGCGG 671
      ||||| ||||| ||||| |||||
DB 1 CAGCAGUGCGCGCGCGG 18

RESULT 1531
US-10-310-914A-917308
; Sequence 917308, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
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; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 917308
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-917308
Query Match          0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 72.2%; Pred. No. 1.1e+03;
Matches 13; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 266 CCTCTGCTCTCTCTCTCC 283
      |||:|||||:|||||:|
DB 1 CCUCCUGCCUCCCCUCC 18

RESULT 1532
US-10-310-914A-929354/c
; Sequence 929354, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 929354
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-929354
Query Match          0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 210 GCGTGGGTGGGGGGGAG 227
      ||||| ||||| ||||| |||||
DB 19 GGGTGGGTGGGGGTGGAG 2

RESULT 1533
US-10-310-914A-943125
; Sequence 943125, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 943125
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-943125
Query Match          0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 88.9%; Pred. No. 1.1e+03;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGCGCGCGGGGCT 676
      ||||| ||||| ||||| |||||
DB 1 GCGGCGCGCGCGCGGCU 18
```

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RESULT 1534
US-10-310-914A-954522
; Sequence 954522, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 954522
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-954522

Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      654 CAGCAGCGCGCGCGCGG 671
      |||||
Db      1 CAGCAGCGCGCGGAGCGG 18

RESULT 1535
US-10-310-914A-969216
; Sequence 969216, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 969216
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-969216

Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      886 GAGAGCCCGCGCGGCGC 903
      |||||
Db      1 GAGAGCCCGCGCGGCGC 18

RESULT 1536
US-10-310-914A-969276/c
; Sequence 969276, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
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; SEQ ID NO 969276
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-969276

Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      656 GCAGCGCGCGCGCGGG 673
      |||||
Db      18 GCAGCGCGCGCGCGGG 1

RESULT 1537
US-11-083-784-1147586/c
; Sequence 1147586, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1147586
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1147586

Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2216 AGAAGAAGCGCAGTGTG 2233
      |||||
Db      18 AGAAGAAGCGCATTTGTG 1

RESULT 1538
US-11-083-784-1168869
; Sequence 1168869, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
```

```
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1168869
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1168869

Query Match          0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2362 GAAAGACAGACAGACAGA 2379
Db 2 GACAGACAGACAGACAGA 19

RESULT 1539
US-11-083-784-1172782/c
; Sequence 1172782, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1172782
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1172782

Query Match          0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1095 CTCTCTCTTCTTCATCTT 1112
Db 19 CTTTCTCTTCTTCATCTT 2

RESULT 1540
US-11-083-784-1172799/c
; Sequence 1172799, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
```

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```
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1172799
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1172799

Query Match          0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1095 CTCTCTCTTCTTCATCTT 1112
Db 18 CTTTCTCTTCTTCATCTT 1

RESULT 1541
US-11-083-784-1183864
; Sequence 1183864, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1183864
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1183864

Query Match          0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 72.2%; Pred. No. 1.1e+03;
Matches 13; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1229 AAACAGAACCCATTCTTA 1246
Db 1 AAACAGAGCCCAUUCUUA 18

RESULT 1542
US-11-083-784-1244220
; Sequence 1244220, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
```

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; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1244220
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1244220

Query Match          0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2362 GAAAGACAGACAGACAGA 2379
Db      2 GACAGACAGACAGACAGA 19

RESULT 1543
US-11-083-784-1254185/c
; Sequence 1254185, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1254185
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1254185

Query Match          0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1679 GTTCTGTTGGTGGCTGTGG 1696
Db      18 GTTCTGTTGGTGGCTGTGG 1

RESULT 1544
US-11-083-784-1317157/c
; Sequence 1317157, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1317157
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1317157

Query Match          0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 153 AATCCCAACACCTGTGC 170
Db      18 AAACCCACACCTGTGC 1

RESULT 1546
US-11-083-784-1392852
; Sequence 1392852, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1385132
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1385132

Query Match          0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 153 AATCCCAACACCTGTGC 170
Db      18 AAACCCACACCTGTGC 1

RESULT 1546
US-11-083-784-1392852
; Sequence 1392852, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
```



; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1392852  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-1392852

Query Match 0.6%; Score 16.4; DB 1; Length 19;  
Best Local Similarity 50.0%; Pred. No. 1.1e+03;  
Matches 9; Conservative 8; Mismatches 1; Indels 0; Gaps 0;

QY 2509 ATACTCTGTCTACTGTA 2526  
|:|:|:|:|:|:|:|:|:|:|:  
Db 2 AUAUCUCUGUUCUCUGUA 19

RESULT 1547  
US-11-083-784-1421921/c  
; Sequence 1421921, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1421921  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-1421921

Query Match 0.6%; Score 16.4; DB 1; Length 19;  
Best Local Similarity 94.4%; Pred. No. 1.1e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 275 TCCTCTCTCTCCACCACC 292  
|:|:|:|:|:|:|:|:|:|:|:  
Db 18 TCCTCTCTCTCCACCCTCC 1

RESULT 1548  
US-11-083-784-1425091/c  
; Sequence 1425091, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1425091  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-1425091

Query Match 0.6%; Score 16.4; DB 1; Length 19;  
Best Local Similarity 94.4%; Pred. No. 1.1e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1100 TCTTCTCATCTTGGTCT 1117  
|:|:|:|:|:|:|:|:|:|:|:  
Db 18 TCTTCTCATCTTGGTCT 1

RESULT 1549  
US-11-083-784-1449576/c  
; Sequence 1449576, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1449576  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-1449576

Query Match 0.6%; Score 16.4; DB 1; Length 19;  
Best Local Similarity 94.4%; Pred. No. 1.1e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2367 ACAGACAGACAGAGGCC 2384  
|:|:|:|:|:|:|:|:|:|:|:  
Db 18 ACAGACAGACAGAGGCC 1

RESULT 1550  
US-11-083-784-1568568

```
; Sequence 1568568, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1568568
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1568568
```

```
Query Match 0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 44.4%; Pred. No. 1.1e+03;
Matches 8; Conservative 9; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 2687 TGTTCTTCGTGACCATGT 2704
Db 1 UGUUUCUCUGACCAUUV 18
```

RESULT 1551

```
US-11-083-784-1583419/c
; Sequence 1583419, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1583419
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1583419
```

```
Query Match 0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1099 CTCCTCTTCATCTTGTC 1116
Db 19 CTCATCTTCATCTTGTC 2
```

```
RESULT 1552
US-11-083-784-229687/c
; Sequence 229687, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 229687
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-229687
```

```
Query Match 0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1910 AGTCACCCATTTACTGCA 1927
Db 18 AGTCACCCATGTACTGCA 1
```

RESULT 1553

```
US-11-083-784-266141
; Sequence 266141, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266141
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266141
```

```
Query Match 0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 66.7%; Pred. No. 1.1e+03;
Matches 12; Conservative 5; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1581 CATCTTTGCCACCATCAT 1598
```



```
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266286

Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 55.6%; Pred. No. 1.1e+03;
Matches 10; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY 672 GGGCTGTGAGTCTTCTT 689
Db 1 GGGCUCGAGAGUUCUUCU 18

RESULT 1558
US-11-083-784-266285
; Sequence 266285, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266285
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266285

Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 83.3%; Pred. No. 1.1e+03;
Matches 15; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2014 GCAGACTCCAAGCAGAA 2031
Db 2 GCAGACUCUAAGCAGAAU 19

RESULT 1559
US-11-083-784-266286
; Sequence 266286, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266286
; LENGTH: 19
```

```
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266286

Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 88.9%; Pred. No. 1.1e+03;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2004 GAGGAAACGACGACTC 2021
Db 1 GAGGAAACGGCAGACUC 18

RESULT 1560
US-11-083-784-266307
; Sequence 266307, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266307
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266307

Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 83.3%; Pred. No. 1.1e+03;
Matches 15; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1950 GGACAGCACCTACAGTGA 1967
Db 1 GGACAGCACCCUGCAGUGA 18

RESULT 1561
US-11-083-784-266309
; Sequence 266309, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
```

```
; SOFTWARE: Proprietary
; SEQ ID NO 266309
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266309

Query Match          0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 83.3%; Pred. No. 1.1e+03;
Matches 15; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1137 GGAGACCCACGAGGCTT 1154
      ||||| ||||| ||||| :
Db 1 GGAGACCCCAUGAGGCCUU 18

RESULT 1562
US-11-083-784-266343
; Sequence 266343, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266343
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266343

Query Match          0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 55.6%; Pred. No. 1.1e+03;
Matches 10; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY 672 GGGCTGTGAGTTCTTCTT 689
      ||||| ||||| ||||| :
Db 1 GGGCUGCGAGUUCUUCU 18

RESULT 1563
US-11-083-784-347887
; Sequence 347887, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10

; SOFTWARE: Proprietary
; SEQ ID NO 426137
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-426137

Query Match          0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2362 GAAAGACACACAGACAG 2379
      ||||| ||||| ||||| :
Db 2 GACAGACACACAGACAG 19

RESULT 1564
US-11-083-784-35218/c
; Sequence 35218, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 35218
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-35218

Query Match          0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 178 AAAGCCAACTCTTCTGC 195
      ||||| ||||| ||||| :
Db 18 AAAGCCAACTCTTCTGC 1

RESULT 1565
US-11-083-784-357323/c
; Sequence 357323, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
```

```
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 357323
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-498078

Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1099 CTTCTTCATCTTGTC 1116
Db 19 CTTCTTCATCTTGTC 2

RESULT 1566
US-11-083-784-448993
; Sequence 448993, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 448993
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-448993

Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 61.1%; Pred. No. 1.1e+03;
Matches 11; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 1345 AACATCATCGACWTTGTG 1362
Db 2 AUCAUCAUGGACUUGUG 19

RESULT 1567
US-11-083-784-498078
; Sequence 498078, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
```

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; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 498078
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-498078

Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 44.4%; Pred. No. 1.1e+03;
Matches 8; Conservative 9; Mismatches 1; Indels 0; Gaps 0;

QY 1092 TGCCTCTCTCTTTCAT 1109
Db 2 UGCCUCUCUCUUCUUUAU 19

RESULT 1568
US-11-083-784-54084
; Sequence 54084, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 54084
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-54084

Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 83.3%; Pred. No. 1.1e+03;
Matches 15; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1856 AGCAGAAAGCTTCCCAAGA 1873
Db 2 AGCAGAACCUCCCAAGA 19

RESULT 1569
US-11-083-784-567035/c
; Sequence 567035, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
```

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; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 567035
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-567035

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Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. NO. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 1117 TCCATTACCACCTTCTGC 1134
Db 18 TTCATTACCACCTTCTGC 1

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RESULT 1570
US-11-083-784-567079/c
; Sequence 567079, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmakon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 567079
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-567079

```

```

Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. NO. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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```

QY 1117 TCCATTACCACCTTCTGC 1134
Db 19 TTCATTACCACCTTCTGC 2

```

```

RESULT 1571
US-11-083-784-63023
; Sequence 63023, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmakon, Inc.
; APPLICANT: Khvorova, Anastasia

```

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; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 63023
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-63023

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```

Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 61.1%; Pred. NO. 1.1e+03;
Matches 11; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

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QY 1345 AACATCATCGACTTTGTG 1362
Db 2 AACACUUCGACUUGUG 19

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RESULT 1572
US-11-083-784-63123
; Sequence 63123, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmakon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 63123
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-63123

```

```

Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 61.1%; Pred. NO. 1.1e+03;
Matches 11; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

```

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QY 1345 AACATCATCGACTTTGTG 1362
Db 2 AACACUUCGACUUGUG 19

```

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RESULT 1573
US-11-083-784-760769
; Sequence 760769, Application US/11083784
; Publication No. US20050245475A1

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RESULT 1577  
US-11-083-784-87280  
; Sequence 87280, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; PRIOR FILING DATE: 2005-03-18  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 87280  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-87280

Query Match 0.6%; Score 16.4; DB 1; Length 19;  
Best Local Similarity 83.3%; Pred. No. 1.1e+03;  
Matches 15; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1140 GACCCACGAGGCGCTTCAA 1157  
DB 1 GAACCAACGAGGCCUCAA 18

RESULT 1578  
US-11-083-784-920665/c  
; Sequence 920665, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; PRIOR FILING DATE: 2005-03-18  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 920665  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-920665

Query Match 0.6%; Score 16.4; DB 1; Length 19;  
Best Local Similarity 94.4%; Pred. No. 1.1e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 289 CACCTCCTCCTCCTTCTC 306  
DB 19 CATCTCCTCCTCCTTCTC 2

RESULT 1579  
US-11-083-784-920695/c  
; Sequence 920695, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; PRIOR FILING DATE: 2005-03-18  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 920695  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-920695

Query Match 0.6%; Score 16.4; DB 1; Length 19;  
Best Local Similarity 94.4%; Pred. No. 1.1e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 289 CACCTCCTCCTCCTTCTC 306  
DB 18 CATCTCCTCCTCCTTCTC 1

RESULT 1580  
US-11-083-784-927675  
; Sequence 927675, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; PRIOR FILING DATE: 2005-03-18  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 927675  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-927675

Query Match 0.6%; Score 16.4; DB 1; Length 19;

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Best Local Similarity 77.8%; Score 16.4; DB 1; Length 19;
Matches 14; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1334 AGAACCTGCTCAACATCA 1351
    |||||:|||||:|
Db 2 AGAAGCUGCUCAACAUC 19

RESULT 1581
US-11-083-784-991243/c
; Sequence 991243, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 991243
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-991243

Query Match 0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1099 CTCCTCTTCATCTTGTC 1116
    |||||:|||||:|
Db 19 CTCATCTTCATCTTGTC 2

RESULT 1582
US-11-101-244-1147586/c
; Sequence 1147586, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1147586
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1147586

Query Match 0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1099 CTCCTCTTCATCTTGTC 1116
    |||||:|||||:|
Db 19 CTCATCTTCATCTTGTC 2

RESULT 1583
US-11-101-244-1168869
; Sequence 1168869, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1168869
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1168869

Query Match 0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2362 GAAAGACAGACAGACAGA 2379
    |||||:|||||:|
Db 2 GACAGACAGACAGACAGA 19

RESULT 1584
US-11-101-244-1172782/c
; Sequence 1172782, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1172782
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1172782

Query Match 0.6%; Score 16.4; DB 1; Length 19;
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```
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1095 CTCTCTCTTCTTCATCTT 1112
Db 19 CTTTCTCTTCTTCATCTT 2

RESULT 1585
US-11-101-244-1172799/c
; Sequence 1172799, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1172799
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1172799

Query Match 0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1095 CTCTCTCTTCTTCATCTT 1112
Db 18 CTTTCTCTTCTTCATCTT 1

RESULT 1586
US-11-101-244-1183864
; Sequence 1183864, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1183864
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1183864

Query Match 0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 72.2%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1229 AAACAGAACCCATTTCTTA 1246
Db 1 AAACAGAGCCCAUUCUA 18

RESULT 1587
US-11-101-244-1244220
; Sequence 1244220, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1244220
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1244220

Query Match 0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2362 GAAAGACAGACAGACAGA 2379
Db 2 GACAGACAGACAGACAGA 19

RESULT 1588
US-11-101-244-1254185/c
; Sequence 1254185, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1254185
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1254185

Query Match 0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

QY 1679 GTTTCGTGGCTGTGG 1696  
Db 18 GTTTCGTGGCTGTGG 1

RESULT 1589  
US-11-101-244-1317157/c  
; Sequence 1317157, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1317157  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-1317157

Query Match 0.6%; Score 16.4; DB 1; Length 19;  
Best Local Similarity 94.4%; Pred. No. 1.1e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 281 TCCTCCACCACTCTCTCC 298  
Db 18 TCCTCCACCTCTCTCTCC 1

RESULT 1590  
US-11-101-244-1385132/c  
; Sequence 1385132, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1385132  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-1385132

Query Match 0.6%; Score 16.4; DB 1; Length 19;  
Best Local Similarity 94.4%; Pred. No. 1.1e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 153 AATCCCAACCACTGTGC 170  
Db 18 AAACCAACCACTGTGC 1

RESULT 1591  
US-11-101-244-1392852  
; Sequence 1392852, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1392852  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-1392852

Query Match 0.6%; Score 16.4; DB 1; Length 19;  
Best Local Similarity 50.0%; Pred. No. 1.1e+03;  
Matches 9; Conservative 8; Mismatches 1; Indels 0; Gaps 0;

QY 2509 ATACTCTGTCTACTGTA 2526  
Db 2 AUACUCUGUUCUCUGUA 19

RESULT 1592  
US-11-101-244-1421921/c  
; Sequence 1421921, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1421921  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-1421921

Query Match 0.6%; Score 16.4; DB 1; Length 19;  
Best Local Similarity 94.4%; Pred. No. 1.1e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 275 TCCTCTCTCTCCACCACC 292

```
Db 18 TCCTCTCTCTCCACCTCC 1
|||||
RESULT 1593
US-11-101-244-1425091/c
; Sequence 1425091, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1425091
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1425091
Query Match 0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1100 TCCTCTCTCATCTGGTCT 1117
|||||
Db 18 TCTTCTGCATCTGGTCT 1

RESULT 1594
US-11-101-244-1449576/c
; Sequence 1449576, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1449576
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1449576
Query Match 0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2367 ACAGACAGACAGAGGCC 2384
|||||
Db 18 ACAGACAGACAGAGGCC 1

RESULT 1595
US-11-101-244-1568568
; Sequence 1568568, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1568568
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1568568
Query Match 0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 44.4%; Pred. No. 1.1e+03;
Matches 8; Conservative 9; Mismatches 1; Indels 0; Gaps 0;

QY 2687 TCTTCTCTGCACCATGT 2704
|||||
Db 1 UGUUUCUDUGACCAUUU 18

RESULT 1596
US-11-101-244-1583419/c
; Sequence 1583419, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1583419
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1583419
Query Match 0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1099 CTCATCTTCATCTTGGTC 1116
|||||
Db 19 CTCATCTTCATCTTGGTC 2
```



## RESULT 1601

US-11-101-244-266222  
; Sequence 266222, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/101,244

; CURRENT FILING DATE: 2005-04-07

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 266222

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

US-11-101-244-266222

Query Match 0.6%; Score 16.4; DB 1; Length 19;

Best Local Similarity 83.3%; Pred. No. 1.1e+03;

Matches 15; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1137 GGAGACCCACGAGGCTT 1154

|||||:|||||:|

Db 1 GGAGACCCACGAGGCTT 18

## RESULT 1602

US-11-101-244-266274

; Sequence 266274, Application US/11101244

; Publication No. US20050246794A1

; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.

; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/101,244

; CURRENT FILING DATE: 2005-04-07

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 266274

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

US-11-101-244-266274

Query Match 0.6%; Score 16.4; DB 1; Length 19;

Best Local Similarity 55.6%; Pred. No. 1.1e+03;

Matches 10; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY 672 GGGCTGTGAGTCTTCTT 689

|||||:|||||:|

Db 1 GGGCTGTGAGTCTTCTT 18

## RESULT 1603

US-11-101-244-266307

## US-11-101-244-266285

; Sequence 266285, Application US/11101244

; Publication No. US20050246794A1

; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.

; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/101,244

; CURRENT FILING DATE: 2005-04-07

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 266285

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

US-11-101-244-266285

Query Match 0.6%; Score 16.4; DB 1; Length 19;

Best Local Similarity 83.3%; Pred. No. 1.1e+03;

Matches 15; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2014 GCAGACTCCAGCAGAA 2031

|||||:|||||:|

Db 2 GCAGACUCUAGCAGAAU 19

## RESULT 1604

US-11-101-244-266286

; Sequence 266286, Application US/11101244

; Publication No. US20050246794A1

; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.

; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/101,244

; CURRENT FILING DATE: 2005-04-07

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 266286

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

US-11-101-244-266286

Query Match 0.6%; Score 16.4; DB 1; Length 19;

Best Local Similarity 88.9%; Pred. No. 1.1e+03;

Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2004 GAGGAACGGCAGAC 2021

|||||:|||||:|

Db 1 GAGGAACGGCAGACUC 18

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; Sequence 266307, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266307
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
US-11-101-244-266307

Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 83.3%; Pred. No. 1.1e+03;
Matches 15; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1950 GGACAGCACCTACAGTCA 1967
      |||||:||||:||||:
Db 1 GGACAGCACCCUGCAGUGA 18

RESULT 1606
US-11-101-244-266309
; Sequence 266309, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266309
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
US-11-101-244-266309

Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 83.3%; Pred. No. 1.1e+03;
Matches 15; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1137 GGAGACCCACGAGGCCTT 1154
      |||||:||||:||||:
Db 1 GGAGACCCACGAGGCCTT 18

RESULT 1607
US-11-101-244-266343
; Sequence 266343, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266343
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
US-11-101-244-266343

Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2362 GAAAGACACACACACAGA 2379
      |||||:||||:||||:
Db 2 GACACACACACACACAGA 19

RESULT 1609
US-11-101-244-35218/c
; Sequence 35218, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 347887
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
US-11-101-244-347887

Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 55.6%; Pred. No. 1.1e+03;
Matches 10; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY 672 GGGCTGTGAGTCTCTTCTT 689
      |||||:||||:||||:
Db 1 GGGCUGCAGAGUUCUUCU 18

RESULT 1608
US-11-101-244-347887
; Sequence 347887, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 347887
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
US-11-101-244-347887

Query Match      0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2362 GAAAGACACACACACAGA 2379
      |||||:||||:||||:
Db 2 GACACACACACACACAGA 19
```



; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 35218  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-35218

Query Match 0.6%; Score 16.4; DB 1; Length 19;  
Best Local Similarity 94.4%; Pred. No. 1.1e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 178 AAAGCAACTCTTCTGTC 195  
Db 18 AAAGCAACTCTTCTGTC 1

RESULT 1610  
US-11-101-244-357323/c  
; Sequence 357323, Application US/11/101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 357323  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-357323

Query Match 0.6%; Score 16.4; DB 1; Length 19;  
Best Local Similarity 94.4%; Pred. No. 1.1e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1099 CTCCTCTCTCTCTGTC 1116  
Db 19 CTCCTCTCTCTCTGTC 2

RESULT 1611  
US-11-101-244-448993  
; Sequence 448993, Application US/11/101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.

; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 448993  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-448993

Query Match 0.6%; Score 16.4; DB 1; Length 19;  
Best Local Similarity 61.1%; Pred. No. 1.1e+03;  
Matches 11; Conservative 6; Mismatches 1; Indels 0; Gaps 0;  
QY 1345 AACATCATCGACTTTGTG 1362  
Db 2 AUCAUCACGACUUGUG 19

RESULT 1612  
US-11-101-244-498078  
; Sequence 498078, Application US/11/101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 498078  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-498078

Query Match 0.6%; Score 16.4; DB 1; Length 19;  
Best Local Similarity 44.4%; Pred. No. 1.1e+03;  
Matches 8; Conservative 9; Mismatches 1; Indels 0; Gaps 0;  
QY 1092 TGCCTCTCTCTCTTCAT 1109  
Db 2 UGCCUCUCUCUUCUUAU 19

RESULT 1613  
US-11-101-244-54084  
; Sequence 54084, Application US/11/101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.

```
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 54084
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-54084
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Query Match 0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 83.3%; Pred. No. 1.1e+03;
Matches 15; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
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```
QY 1856 AGCAGAAAGCTTCCCAAGA 1873
      ||||| :|||
Db 2 AGCAGAACCUCCCAAGA 19
```

```
RESULT 1614
US-11-101-244-567035/c
; Sequence 567035, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 567035
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-567035
```

```
Query Match 0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1117 TCCATTACCACCTTCTGC 1134
      ||||| :|||
Db 18 TCCATTACCACCTTCTGC 1
```

```
RESULT 1615
US-11-101-244-567079/c
; Sequence 567079, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
```

```
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 567079
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-567079
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```
Query Match 0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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```
QY 1117 TCCATTACCACCTTCTGC 1134
      ||||| :|||
Db 19 TCCATTACCACCTTCTGC 2
```

```
RESULT 1616
US-11-101-244-63023
; Sequence 63023, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 63023
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-63023
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```
Query Match 0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 61.1%; Pred. No. 1.1e+03;
Matches 11; Conservative 6; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1345 AACATCATCGACTTTGTG 1362
      ||| :|||
Db 2 AACAUUCGACUUGUG 19
```

```
RESULT 1617
US-11-101-244-63123
; Sequence 63123, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
```

RESULT 1619  
US-11-101-244-86982  
; Sequence 86982, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Pharmakon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin

RESULT 1621. :  
US-11-101-244-87182  
; Sequence 87182, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmoon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William

```
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 87182
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-87182

Query Match          0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 83.3%; Pred. No. 1.1e+03;
Matches 15; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1140 GACCCACGAGGCCTTCAA 1157
Db 1 GAACCACGAGGCCUCAA 18

RESULT 1622
US-11-101-244-87280
; Sequence 87280, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 87280
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-87280

Query Match          0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 83.3%; Pred. No. 1.1e+03;
Matches 15; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1140 GACCCACGAGGCCTTCAA 1157
Db 1 GAACCACGAGGCCUCAA 18

RESULT 1623
US-11-101-244-920665/c
; Sequence 920665, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
```

```
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 920665
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-920665

Query Match          0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 289 GACCTCTCTCTCTCTCTC 306
Db 19 CATCTCTCTCTCTCTCTC 2

RESULT 1624
US-11-101-244-920695/c
; Sequence 920695, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 920695
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-920695

Query Match          0.6%; Score 16.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.1e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 289 GACCTCTCTCTCTCTCTC 306
Db 18 CATCTCTCTCTCTCTCTC 1

RESULT 1625
US-11-101-244-927675
; Sequence 927675, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
```

; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 927675  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-927675

Query Match 0.6%; Score 16.4; DB 1; Length 19;  
Best Local Similarity 77.8%; Pred. No. 1.1e+03;  
Matches 14; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1334 AGAAGCTGCTCAACATCA 1351  
|||||:|||||:  
DB 2 AGAAGCTGCTCAACATCA 19

## RESULT 1626

US-11-101-244-991243/c  
; Sequence 991243, Application US/11/101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 991243  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-991243

Query Match 0.6%; Score 16.4; DB 1; Length 19;  
Best Local Similarity 94.4%; Pred. No. 1.1e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1099 CTCCTCTTCATCTTGTC 1116  
|||||:|||||:  
DB 19 CTCATCTTCATCTTGTC 2

## RESULT 1627

US-10-310-914A-1003288  
; Sequence 1003288, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvazat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1003288  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1003288

Query Match 0.6%; Score 16.4; DB 1; Length 20;  
Best Local Similarity 61.1%; Pred. No. 1.3e+03;  
Matches 11; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 298 CTCCTTCTGCTCTCTCC 315  
|:|:|:|:|:|:|:  
DB 3 CUCCUCCGCGUCUCC 20

## RESULT 1628

US-10-310-914A-1006035/c  
; Sequence 1006035, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvazat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1006035  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1006035

Query Match 0.6%; Score 16.4; DB 1; Length 20;  
Best Local Similarity 94.4%; Pred. No. 1.3e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 207 GGGGGTGGGGTGGGGG 224  
|:|:|:|:|:|:|:  
DB 20 GCGGGTGGGGTGGGGG 3

## RESULT 1629

US-10-310-914A-1074905/c  
; Sequence 1074905, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvazat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1074905  
; LENGTH: 20  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1074905

Query Match 0.6%; Score 16.4; DB 1; Length 20;  
Best Local Similarity 94.4%; Pred. No. 1.3e+03;  
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 216 GGTGGGGGAGGAGGAGG 233  
|:|:|:|:|:|:|:  
DB 19 GGTGGGGGAGGAGGAGG 2

```
RESULT 1630
US-10-310-914A-1295118
; Sequence 1295118, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1295118
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1295118

Query Match          0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.3e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 648 CAGCGGCGAGCGGCGG 665
Db 1 CAGCGGCGAGCGGCGG 18

RESULT 1631
US-10-310-914A-1319113/c
; Sequence 1319113, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1319113
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1319113

Query Match          0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.3e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 288 CCACCTCCTCCTCCTTCT 305
Db 18 CCTCCTCCTCCTCCTTCT 1

RESULT 1632
US-10-310-914A-1324242
; Sequence 1324242, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
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```
; SEQ ID NO 1324242
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1324242

Query Match          0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 83.3%; Pred. No. 1.3e+03;
Matches 15; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 207 GCGGGGTGGGTGGGGG 224
Db 1 GCGGGUUGGGUGGGGG 18

RESULT 1633
US-10-310-914A-180440/c
; Sequence 180440, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 180440
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-180440

Query Match          0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.3e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 643 GGCAGCAGCGCAGCAGC 660
Db 19 GGCAGCAGCGCAGCAGC 2

RESULT 1634
US-10-310-914A-191773
; Sequence 191773, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 191773
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-191773

Query Match          0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.3e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 658 AGCGGCGGCGGCGGCG 675
Db 2 AGCGGCGGCGGCGGCG 19
```

```
RESULT 1635
US-10-310-914A-219249
; Sequence 219249, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 219249
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-219249

Query Match          0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 88.9%; Pred. No. 1.3e+03;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 631 GCGCGCGTGCAGGCAGC 648
    |||||:|||||
Db 3 GCGCGCGGUGAGGCAGC 20

RESULT 1636
US-10-310-914A-221907
; Sequence 221907, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 221907
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-221907

Query Match          0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 88.9%; Pred. No. 1.3e+03;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 894 GCACGGGGCGGGGGTGG 911
    |||||:|||||
Db 3 GCACGGGGCGGGGGGUGG 20

RESULT 1637
US-10-310-914A-282991
; Sequence 282991, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 282991
```

```
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-282991

Query Match          0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 88.9%; Pred. No. 1.3e+03;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGCGCGCGGGGGGCT 676
    |||||:|||||
Db 1 GCGCGCGCGGGCGGCGCU 18

RESULT 1638
US-10-310-914A-307079/c
; Sequence 307079, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 307079
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-307079

Query Match          0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.3e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 207 GGGGGTGGGTGGGGGG 224
    |||||:|||||
Db 18 GGGGAGTGGGTGGGGGG 1

RESULT 1639
US-10-310-914A-333297/c
; Sequence 333297, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 333297
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-333297

Query Match          0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.3e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 208 GGGGGTGGGTGGGGGG 225
    |||||:|||||
Db 19 GGTGGTGGGTGGGGGGG 2

RESULT 1640
```

```
US-10-310-914A-368094
; TYPE: RNA
; ORGANISM: Human
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 368094
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-368094

Query Match      0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 88.9%; Pred. No. 1.3e+03;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGCGCGCGGGGCT 676
Db 1 GCGGCGCGCGCGGGGCU 18

RESULT 1641
US-10-310-914A-445197/c
; Sequence 445197, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 445197
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-445197

Query Match      0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.3e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 639 TGCAGGCGAGCGGGCAG 656
Db 18 TGCAGGCTGCAGCGGCAG 1

RESULT 1642
US-10-310-914A-452201
; Sequence 452201, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 452201
; LENGTH: 20
```

```
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-452201

Query Match      0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 72.2%; Pred. No. 1.3e+03;
Matches 13; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 269 CCGGCTCTCTCTCTCTCC 286
Db 2 CCGGCGCUCUCUCCUCC 19

RESULT 1643
US-10-310-914A-459531/c
; Sequence 459531, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 459531
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-459531

Query Match      0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.3e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2362 GAAAGACAGACAGACAGA 2379
Db 18 GACAGACAGACAGACAGA 1

RESULT 1644
US-10-310-914A-465760
; Sequence 465760, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 465760
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-465760

Query Match      0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.3e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2373 AGACAGAAAGCCAGAGGC 2390
Db 3 AAACAGAAAGCCAGAGGC 20

RESULT 1645
US-10-310-914A-500074/c
```





```
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 617314
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-617314
```

```
Query Match 0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 83.3%; Pred. No. 1.3e+03;
Matches 15; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 208 GGGGGTGGGGTGGGGGG 225
|||:||||:|||||
Db 2 GGGGGUGGGGUGGGGUG 19
```

```
RESULT 1651
US-10-310-914A-684699
; Sequence 684699, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 684699
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-684699
```

```
Query Match 0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 61.1%; Pred. No. 1.3e+03;
Matches 11; Conservative 6; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 289 CACCTCTCTCTCTTCTC 306
|:|:|:|:|:|:|:|
Db 2 CUCCUCUCCUCCUCCUC 19
```

```
RESULT 1652
US-10-310-914A-689723/c
; Sequence 689723, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 689723
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
```

US-10-310-914A-689723

```
Query Match 0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.3e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 207 GGGGGTGGGGTGGGGG 224
|||||:|||||
Db 18 GGGGGTTGGGTGGGGGG 1
```

```
RESULT 1653
US-10-310-914A-700721/c
; Sequence 700721, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 700721
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-700721
```

```
Query Match 0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.3e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 208 GGGGGTGGGGTGGGGGG 225
|||||:|||||
Db 18 GGGGGTGGGTGGGTGGG 1
```

```
RESULT 1654
US-10-310-914A-710498/c
; Sequence 710498, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 710498
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-710498
```

```
Query Match 0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.3e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 656 GCAGCGCGCGCGCGGG 673
|||:|||||
Db 18 GCGGCGCGCGCGCGGG 1
```

```
RESULT 1655
US-10-310-914A-743434
; Sequence 743434, Application US/10310914A
; Publication No. US20060003322A1
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```
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 743434
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-743434

Query Match      0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 72.2%; Pred. No. 1.3e+03;
Matches 13; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 277 CTCCTCTCCACCACCTC 294
      |||:|||||:|
Db 1 CUCCUCCUCCACCUCCUC 18

RESULT 1656
US-10-310-914A-743562
; Sequence 743562, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 743562
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-743562

Query Match      0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 88.9%; Pred. No. 1.3e+03;
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 257 CCGCCACCACCTCCTGCC 274
      |||||:|||||:|
Db 1 CCGCCACCACCUCCGCC 18

RESULT 1657
US-10-310-914A-913582/c
; Sequence 913582, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 913582
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-913582
```

```
Query Match      0.6%; Score 16.4; DB 1; Length 20;
Best Local Similarity 94.4%; Pred. No. 1.3e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 208 GCGGGTGGGTGGGGGG 225
      |||||:|||||:|
Db 20 GCGGGGGGGGTGGGGGG 3

RESULT 1658
US-10-310-914A-211324/c
; Sequence 211324, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 211324
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-211324

Query Match      0.6%; Score 16; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.1e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 208 GCGGGTGGGTGGGGGG 223
      |||||:|||||:|
Db 17 GCGGGGTGGGTGGGGGG 2

RESULT 1659
US-10-310-914A-327977
; Sequence 327977, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 327977
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-327977

Query Match      0.6%; Score 16; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.1e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGG 671
      |||||:|||||:|
Db 3 GCAGCGCGCGCGCGG 18

RESULT 1660
US-10-310-914A-338097
; Sequence 338097, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
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; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 338097
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-338097

Query Match      0.6%; Score 16; DB 1; Length 18;
Best Local Similarity 81.2%; Pred. No. 1.1e+03;
Matches 13; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 2731 CCTGGGACCTGCCCT 2746
||:|||||:||||:
||:|||||:||||:
Db 3 CCUGGACCGGCCCU 18

RESULT 1661
US-10-310-914A-339227
; Sequence 339227, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 339227
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-339227

Query Match      0.6%; Score 16; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.1e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 654 CAGCAGCGCGCGCGC 669
|||||:|||||:|||||
Db 1 CAGCAGCGCGCGCGC 16

RESULT 1662
US-10-310-914A-339966
; Sequence 339966, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 339966
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-339966
```

```
Query Match      0.6%; Score 16; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.1e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 654 CAGCAGCGCGCGCGC 669
|||||:|||||:|||||
Db 1 CAGCAGCGCGCGCGC 16

RESULT 1663
US-10-310-914A-436773/c
; Sequence 436773, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 436773
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-436773

Query Match      0.6%; Score 16; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.1e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCG 668
|||||:|||||:|||||
Db 16 GCAGCAGCGCGCGCG 1

RESULT 1664
US-10-310-914A-494397
; Sequence 494397, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 494397
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-494397

Query Match      0.6%; Score 16; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.1e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 656 GCAGCAGCGCGCGCG 671
|||||:|||||:|||||
Db 3 GCAGCAGCGCGCGCG 18

RESULT 1665
US-10-310-914A-550481/c
; Sequence 550481, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
```

```
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 550481
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-550481

Query Match      0.6%; Score 16; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.1e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGG 224
Db 18 GGGGTGGGTGGGGG 3

RESULT 1666
US-10-310-914A-860165/c
; Sequence 860165, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 860165
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-860165

Query Match      0.6%; Score 16; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.1e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2829 TTGCCCTTCTGGGTC 2844
Db 18 TTGCCCTTCTGGGTC 3

RESULT 1667
US-10-310-914A-89194
; Sequence 89194, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 89194
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-89194

Query Match      0.6%; Score 16; DB 1; Length 18;
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Best Local Similarity 100.0%; Pred. No. 1.1e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGG 671
Db 3 GCAGCGCGCGCGCGG 18

RESULT 1668
US-10-310-914A-1006034/c
; Sequence 1006034, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1006034
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1006034

Query Match      0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGG 224
Db 18 GGGGTGGGTGGGGG 3

RESULT 1669
US-10-310-914A-1041086/c
; Sequence 1041086, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1041086
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1041086

Query Match      0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 208 GGGGTGGGTGGGGG 223
Db 19 GGGGTGGGTGGGGG 4

RESULT 1670
US-10-310-914A-1304666
; Sequence 1304666, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
```

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; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1304666
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1304666

Query Match          0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 87.5%; Pred. No. 1.3e+03;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1227 AGAAACAGAACCCATT 1242
Db 3 AGAAACAGAACCCAUU 18

RESULT 1671
US-10-310-914A-186952/c
; Sequence 186952, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 186952
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-186952

Query Match          0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 210 GGGTGGGGTGGGGGG 225
Db 19 GGGTGGGGTGGGGGG 4

RESULT 1672
US-10-310-914A-545974/c
; Sequence 545974, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 545974
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-545974

Query Match          0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 210 GGGTGGGGTGGGGGG 225
Db 19 GGGTGGGGTGGGGGG 4

RESULT 1673
US-10-310-914A-609252/c
; Sequence 609252, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 609252
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-609252

Query Match          0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 209 GGGTGGGGTGGGGGG 224
Db 16 GGGTGGGGTGGGGGG 1

RESULT 1674
US-10-310-914A-847630
; Sequence 847630, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 847630
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-847630

Query Match          0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 81.2%; Pred. No. 1.3e+03;
Matches 13; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1923 CTGCAAGTCTGAGGAG 1938
Db 4 CUGCAAGUCUGAGGAG 19

RESULT 1675
US-11-083-784-1334940
; Sequence 1334940, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
```

```
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 656 GCAGCGGGCGGGCGG 671
Db 19 GCAGCGGGCGGGCGG 4

RESULT 1673
US-10-310-914A-609252/c
; Sequence 609252, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 609252
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-609252

Query Match          0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 209 GGGTGGGGTGGGGGG 224
Db 16 GGGTGGGGTGGGGGG 1

RESULT 1674
US-10-310-914A-847630
; Sequence 847630, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 847630
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-847630

Query Match          0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 81.2%; Pred. No. 1.3e+03;
Matches 13; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1923 CTGCAAGTCTGAGGAG 1938
Db 4 CUGCAAGUCUGAGGAG 19

RESULT 1675
US-11-083-784-1334940
; Sequence 1334940, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
```

; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1334940  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-1334940

Query Match 0.6%; Score 16; DB 1; Length 19;  
Best Local Similarity 100.0%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2366 GACAGACACAGAGAAA 2381  
Db 2 GACAGACACAGAGAAA 17  
|||||

## RESULT 1676

US-11-083-784-1581015  
; Sequence 1581015, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmakon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1581015  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-1581015

Query Match 0.6%; Score 16; DB 1; Length 19;  
Best Local Similarity 62.5%; Pred. No. 1.3e+03;  
Matches 10; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1349 TCATCGACTTTGTGGC 1364  
Db 1 UCAUCGACUUUGGCG 16  
|||||

## RESULT 1677

US-11-083-784-1581186  
; Sequence 1581186, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:

; APPLICANT: Dharmakon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1581186  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-1581186

Query Match 0.6%; Score 16; DB 1; Length 19;  
Best Local Similarity 62.5%; Pred. No. 1.3e+03;  
Matches 10; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1349 TCATCGACTTTGTGGC 1364  
Db 1 UCAUCGACUUUGGCG 16  
|||||

## RESULT 1678

US-11-083-784-1581292  
; Sequence 1581292, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmakon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1581292  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-1581292

Query Match 0.6%; Score 16; DB 1; Length 19;  
Best Local Similarity 62.5%; Pred. No. 1.3e+03;  
Matches 10; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1349 TCATCGACTTTGTGGC 1364  
Db 1 UCAUCGACUUUGGCG 16  
|||||

## RESULT 1679

US-11-083-784-293555/c

```
; Sequence 293555, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 293555
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-293555
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Query Match 0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1096 TCTCTCTTCTCATCT 1111
Db 19 TCTCTCTTCTCATCT 4
```

```
RESULT 1680
US-11-083-784-33015/c
; Sequence 33015, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 33015
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-33015
```

```
Query Match 0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 2532 AAGACATATATGCA 2547
Db 17 AAGACATATATGCA 2
```

```
RESULT 1681
US-11-083-784-421587
; Sequence 421587, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 421587
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-421587
```

```
Query Match 0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 87.5%; Pred. No. 1.3e+03;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1859 AGAAGCTTCCCAAGAA 1874
Db 4 AGAAGCUCCCAAGAA 19
```

```
RESULT 1682
US-11-083-784-421633
; Sequence 421633, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 421633
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-421633
```

```
Query Match 0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 87.5%; Pred. No. 1.3e+03;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
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```
QY 1859 AGAAGCTTCCCAAGAA 1874
```



```

Db      3 AGAAGCUCCCAAGAA 18
|||||:|||||
RESULT 1683
US-11-083-784-440386
; Sequence 440386, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 440386
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-440386

Query Match      0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 81.2%; Pred. No. 1.3e+03;
Matches 13; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      2219 AAGAAGCGCAGTGTGA 2234
|||||:|||||
Db      2 AAGAAGCGCAGUGUUGA 17
|||||:|||||
RESULT 1684
US-11-083-784-440392
; Sequence 440392, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 440392
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-440392

Query Match      0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 81.2%; Pred. No. 1.3e+03;
Matches 13; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Db      3 AGAAGCUCCCAAGAA 18
|||||:|||||
RESULT 1683
US-11-083-784-440386
; Sequence 440386, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 440386
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-440386

Query Match      0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 81.2%; Pred. No. 1.3e+03;
Matches 13; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      2219 AAGAAGCGCAGTGTGA 2234
|||||:|||||
Db      2 AAGAAGCGCAGUGUUGA 17
|||||:|||||
RESULT 1684
US-11-083-784-440392
; Sequence 440392, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 440392
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-440392

Query Match      0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 81.2%; Pred. No. 1.3e+03;
Matches 13; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      2219 AAGAAGCGCAGTGTGA 2234
|||||:|||||
Db      3 AAGAAGCGCAGUGUUGA 18
|||||:|||||
RESULT 1685
US-11-083-784-544614
; Sequence 544614, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 544614
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-544614

Query Match      0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 81.2%; Pred. No. 1.3e+03;
Matches 13; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      1986 GGAAGAGGGTATGGTC 2001
|||||:|||||
Db      1 GGAAGAGGGGUAUGGUC 16
|||||:|||||
RESULT 1686
US-11-083-784-567038/c
; Sequence 567038, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 567038
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-567038
```



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; SOFTWARE: Proprietary
; SEQ ID NO 789910
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-789910

Query Match          0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1786 CTAACCATGCCATGC 1801
Db 16 CTAACCATGCCATGC 1

RESULT 1691
US-11-083-784-794269/c
; Sequence 794269, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 794269
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-794269

Query Match          0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 CTTCTCTGCTTTCTG 21
Db 17 CTTCTCTGCTTTCTG 2

RESULT 1692
US-11-083-784-868122/c
; Sequence 868122, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 868122
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-868122

Query Match          0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 291 CCTCCTCTCTCTTCTC 306
Db 17 CCTCCTCTCTCTTCTC 2

RESULT 1693
US-11-101-244-1334940
; Sequence 1334940, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1334940
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1334940

Query Match          0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2366 GACAGACAGACAGAAA 2381
Db 2 GACAGACAGACAGAAA 17

RESULT 1694
US-11-101-244-1581015
; Sequence 1581015, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1581015
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1581015
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; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1581015
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1581015

Query Match          0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 62.5%; Pred. No. 1.3e+03;
Matches 10; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1349 TCATCGACTTTGTGGC 1364
   :||:|||||:|:|
Db 1 UCAUCGACUUUGGCG 16

RESULT 1695
US-11-101-244-1581186
; Sequence 1581186, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1581186
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1581186

Query Match          0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 62.5%; Pred. No. 1.3e+03;
Matches 10; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1349 TCATCGACTTTGTGGC 1364
   :||:|||||:|:|
Db 1 UCAUCGACUUUGGCG 16

RESULT 1696
US-11-101-244-1581292
; Sequence 1581292, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
```

```
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1581292
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1581292

Query Match          0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 62.5%; Pred. No. 1.3e+03;
Matches 10; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1349 TCATCGACTTTGTGGC 1364
   :||:|||||:|:|
Db 1 UCAUCGACUUUGGCG 16

RESULT 1697
US-11-101-244-293555/c
; Sequence 293555, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 293555
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-293555

Query Match          0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1096 TCTCTCTTCTTCATCT 1111
   |||||
Db 19 TCTCTCTTCTTCATCT 4

RESULT 1698
US-11-101-244-33015/c
; Sequence 33015, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
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; SOFTWARE: Proprietary
; SEQ ID NO 33015
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-33015

Query Match
Best Local Similarity 0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. NO. 1.3e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2532 AAGAGACATATGCA 2547
Db 17 AAGAGACATATGCA 2

RESULT 1699
US-11-101-244-421587
; Sequence 421587, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 421587
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-421587

Query Match
Best Local Similarity 0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 87.5%; Pred. NO. 1.3e+03;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1859 AGAAGCTTCCCAAGAA 1874
Db 4 AGAAGCUUCCCAAGAA 19

RESULT 1700
US-11-101-244-421633
; Sequence 421633, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 421633
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-421633

Query Match
Best Local Similarity 0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 87.5%; Pred. NO. 1.3e+03;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1859 AGAAGCTTCCCAAGAA 1874
Db 3 AGAAGCUUCCCAAGAA 18

RESULT 1701
US-11-101-244-440386
; Sequence 440386, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 440386
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-440386

Query Match
Best Local Similarity 0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 81.2%; Pred. NO. 1.3e+03;
Matches 13; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 2219 AAGAAGGCAGTGTGCA 2234
Db 2 AAGAAGGCAGUGUGA 17

RESULT 1702
US-11-101-244-440392
; Sequence 440392, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 440392
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```
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-567038

Query Match          0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 81.2%; Pred. No. 1.3e+03;
Matches 13; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 2219 AAGAAGCGAGTGTGA 2234
    |||||:|:|:|:|:|:|
Db 3 AAGAAGCGAGUGUGA 18

RESULT 1703
US-11-101-244-544614
; Sequence 544614, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 544614
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-544614

Query Match          0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 81.2%; Pred. No. 1.3e+03;
Matches 13; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1986 GGAAGAGGATGTC 2001
    |||||:|:|:|:|:|
Db 1 GGAAGAGGUGGUC 16

RESULT 1704
US-11-101-244-567038/c
; Sequence 567038, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 567038
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-567038

Query Match          0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1119 CATTACCACCTTCTGC 1134
    |||||:|:|:|:|:|
Db 18 CATTACCACCTTCTGC 3

RESULT 1705
US-11-101-244-599154
; Sequence 599154, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 599154
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-599154

Query Match          0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 62.5%; Pred. No. 1.3e+03;
Matches 10; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1349 TCATCGACCTTGTGGC 1364
    :||:|:|:|:|:|:|
Db 1 UCAUCGACUUGGUC 16

RESULT 1706
US-11-101-244-599325
; Sequence 599325, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 599325
; LENGTH: 19
; TYPE: RNA
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; ORGANISM: Homo sapiens
US-11-101-244-599325

Query Match          0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 62.5%; Pred. No. 1.3e+03;
Matches 10; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1349 TCATCGACTTTGGC 1364
Db 1 UCAUCGACUUUGGC 16

RESULT 1707
US-11-101-244-599431
; Sequence 599431, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 599431
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-599431

Query Match          0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 62.5%; Pred. No. 1.3e+03;
Matches 10; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1349 TCATCGACTTTGGC 1364
Db 1 UCAUCGACUUUGGC 16

RESULT 1708
US-11-101-244-789910/c
; Sequence 789910, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 789910
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-789910
```

```
US-11-101-244-789910

Query Match          0.6%; Score 16; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1786 CTAACCATTCGCATGC 1801
Db 16 CTAACCATTCGCATGC 1

RESULT 1709
US-11-101-244-794269/c
; Sequence 794269, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 794269
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-794269

Query Match          0.6%; Score 16; DB 1; Length 19;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 CTTCTCTGCTTTCTG 21
Db 17 CTTCTCTGCTTTCTG 2

RESULT 1710
US-11-101-244-868122/c
; Sequence 868122, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 868122
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-868122
```

Query Match 0.6%; Score 16; DB 1; Length 19;  
Best Local Similarity 100.0%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 291 CCTCCTCTCTCTCTC 306  
|||||

Db 17 CCTCCTCTCTCTCTC 2

## RESULT 1711

US-10-310-914A-1039296/c  
; Sequence 1039296, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 1039296

; LENGTH: 20

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-1039296

Query Match 0.6%; Score 16; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 659 GCGGCGGCGGCGGGG 674  
|||||

Db 19 GCGGCGGCGGCGGGG 4

## RESULT 1712

US-10-310-914A-1041125/c  
; Sequence 1041125, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 1041125

; LENGTH: 20

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-1041125

Query Match 0.6%; Score 16; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 208 GGGGGTGGGGTGGGG 223  
|||||

Db 20 GGGGGTGGGGTGGGG 5

## RESULT 1713

US-10-310-914A-148812/c  
; Sequence 148812, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 148812

; LENGTH: 20

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-148812

Query Match 0.6%; Score 16; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 650 GCGGCGGCGGCGGG 665  
|||||

Db 16 GCGGCGGCGGCGGG 1

## RESULT 1714

US-10-310-914A-308969  
; Sequence 308969, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 308969

; LENGTH: 20

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-308969

Query Match 0.6%; Score 16; DB 1; Length 20;  
Best Local Similarity 75.0%; Pred. No. 1.5e+03;  
Matches 12; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 273 CCTCCTCTCTCTCCAC 288  
||:|:|:|:|:|:|:|

Db 1 CCUCCUCCUCCUCCAC 16

## RESULT 1715

US-10-310-914A-445670  
; Sequence 445670, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 445670

; LENGTH: 20

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-445670



```
Query Match      0.6%; Score 16; DB 1; Length 20;
Best Local Similarity 87.5%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 208 GGGGTGGGGTGGGGG 223
      |||||:||||:||||
Db 1 GGGGUGGGUGGGGGG 16

RESULT 1716
US-10-310-914A-45028
; Sequence 45028, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 45028
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-45028

Query Match      0.6%; Score 16; DB 1; Length 20;
Best Local Similarity 81.2%; Pred. No. 1.5e+03;
Matches 13; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 286 CACCACCTCTCTCTCC 301
      |||||:||||:||||
Db 2 CACCACCTCTCTCTCC 17

RESULT 1717
US-10-310-914A-550500/c
; Sequence 550500, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 550500
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-550500

Query Match      0.6%; Score 16; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 209 GGGGTGGGGTGGGGG 224
      |||||:||||:||||
Db 19 GGGGTGGGGTGGGGG 4

RESULT 1718
US-10-310-914A-609259/c
; Sequence 609259, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
```

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; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 609259
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-609259

Query Match      0.6%; Score 16; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 209 GGGGTGGGGTGGGGG 224
      |||||:||||:||||
Db 19 GGGGTGGGGTGGGGG 4

RESULT 1719
US-10-310-914A-609290/c
; Sequence 609290, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 609290
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-609290

Query Match      0.6%; Score 16; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 209 GGGGTGGGGTGGGGG 224
      |||||:||||:||||
Db 17 GGGGTGGGGTGGGGG 2

RESULT 1720
US-10-310-914A-66240
; Sequence 66240, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 66240
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-66240

Query Match      0.6%; Score 16; DB 1; Length 20;
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**TITLE OF INVENTION:** Bioinformatically detectable group of novel regulatory genes and

Query Match 0.6%; Score 15.8; DB 1;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels



QY 2255 TGCTCAGACCTGTGTCTT 2273  
DB 19 TGGCTCAGACCTGTGTATCT 1

## RESULT 1736

US-10-310-914A-1074616  
; Sequence 1074616, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1074616  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1074616

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 78.9%; Pred. No. 1.4e+03;  
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 213 TGGGTGGGGGGGAGCAG 231  
DB 1 UGGGGUGGGGAGAGACAG 19

## RESULT 1737

US-10-310-914A-1074617  
; Sequence 1074617, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1074617  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1074617

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 78.9%; Pred. No. 1.4e+03;  
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 213 TGGGTGGGGGGGAGCAG 231  
DB 1 UGGGGUGGGGAGAGACAG 19

## RESULT 1738

US-10-310-914A-107710  
; Sequence 107710, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 107710  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-107710

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 890 GCCCGACGGGGCGGGG 908  
DB 1 GGCCGGGGGGGGGGGG 19

## RESULT 1739

US-10-310-914A-1088228/c  
; Sequence 1088228, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1088228  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1088228

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 890 GCCCGACGGGGCGGGG 908  
DB 1 GGCCGGGGGGGGGGGG 1

## RESULT 1740

US-10-310-914A-1090784/c  
; Sequence 1090784, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1090784  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1090784

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGACGGGGCGGGG 670

```
Db      19  GCGCGCGCGCGCGCGCG 1
|||||
RESULT 1741
US-10-310-914A-1101765/c
; Sequence 1101765, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1101765
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1101765
Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      644  GCAGCAGCGCGCAGCAGCG 662
|||||
Db      19  GCGGCAGCGCGCAGCAGCG 1
|||||
RESULT 1742
US-10-310-914A-1105377
; Sequence 1105377, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1105377
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1105377
Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      650  GCGGCAGCGCGCGCGCG 668
|||||
Db      1  GCGCGCGCGCGCGCGCG 19
|||||
RESULT 1743
US-10-310-914A-1105383
; Sequence 1105383, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1115149
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1115149
Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.4e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      661  GCGCGCGCGCGCGCTGTG 679
|||||
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1105383
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1105383
Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.4e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      661  GCGCGCGCGCGCGCTGTG 679
|||||
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1115149
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1115149
Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      293  TCCTCTCTCTCTCTCGTCTC 311
|||||
Db      19  TCCTCTCTCTCTTCTTCTC 1
|||||
RESULT 1745
US-10-310-914A-1115149
; Sequence 1115149, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1115149
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1115149
Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.4e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      661  GCGCGCGCGCGCGCTGTG 679
|||||
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RESULT 1751  
US-10-310-914A-1152463/c  
; Sequence 1152463, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1152463  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1152463

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2255 TGCTCACCCTGTGCTCT 2273  
|| ||||| ||||| |||||  
Db 19 TGGCTCACCTGTGATCT 1

RESULT 1752  
US-10-310-914A-115351/c  
; Sequence 115351, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 115351  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-115351

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 214 GGGGTGGGGGAGGAGG 232  
||||| ||||| |||||  
Db 19 GGGGTGGGGGAGGAGG 1

RESULT 1753  
US-10-310-914A-1157587  
; Sequence 1157587, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1157587  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1157587

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 57.9%; Pred. No. 1.4e+03;  
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 294 CCTCGCTCTCTCTCTCC 312  
|||:||:|:|:|:|:|:|  
Db 1 CCUCCUCCUCCUCCUCCCC 19

RESULT 1754  
US-10-310-914A-1157687  
; Sequence 1157687, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1157687  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1157687

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 63.2%; Pred. No. 1.4e+03;  
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 281 TCCTCCACCACCTCTCTCT 299  
:|:|||||:|:|:|:|:|  
Db 1 UCAUCCACGACCUCCUCCU 19

RESULT 1755  
US-10-310-914A-117095  
; Sequence 117095, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 117095  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-117095

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCGGCGGC 666  
||||| ||||| |||||  
Db 1 CAGCGGCAGCGGCGGC 19



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RESULT 1756
US-10-310-914A-117107
; Sequence 117107, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 117107
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-117107

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.4e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 661 GCGCGCGCGCGGCTGTG 679
      ||||| ||||| ||||| |||||
Db 1 GCGCGCGCGCGCGCGGUG 19

RESULT 1757
US-10-310-914A-118136
; Sequence 118136, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 118136
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-118136

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.4e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 661 GCGCGCGCGCGGCTGTG 679
      ||||| ||||| ||||| |||||
Db 1 GCGCGCGCGCGCGCGGUG 19

RESULT 1758
US-10-310-914A-1211676/c
; Sequence 1211676, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1211676
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1211676/c

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 1.4e+03;
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 272 GCCTCCTCTCTCTCCACCA 290
      ||||| ||||| ||||| |||||
Db 1 GCCCUCUCCUCCUCCUCCA 19

RESULT 1759
US-10-310-914A-1211677/c
; Sequence 1211677, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1211677
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1211677/c

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2535 AGACATATATGCACATATA 2553
      ||||| ||||| ||||| |||||
Db 19 ATACATATATACACATATA 1

RESULT 1760
US-10-310-914A-1219799/c
; Sequence 1219799, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1219799
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1219799

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2535 AGACATATATGCACATATA 2553
      ||||| ||||| ||||| |||||
Db 19 ATACATATATACACATATA 1
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; SEQ ID NO 1211676
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1211676

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2535 AGACATATATGCACATATA 2553
      ||||| ||||| ||||| |||||
Db 19 ATACATATATACACATATA 1

RESULT 1759
US-10-310-914A-1211677/c
; Sequence 1211677, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1211677
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1211677

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2535 AGACATATATGCACATATA 2553
      ||||| ||||| ||||| |||||
Db 19 ATACATATATACACATATA 1

RESULT 1760
US-10-310-914A-1219799/c
; Sequence 1219799, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1219799
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1219799

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 270 CTGCCTCTCTCTCTCCAC 288
      ||||| ||||| ||||| |||||
Db 19 CGGCTCTCTCTCTCTCTC 1
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RESULT 1761
US-10-310-914A-1232477/c
; Sequence 1232477, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1232477
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1232477

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2255 TGTCTCACACCTGTGTCT 2273
Db 19 TGGCTCACACCTGTGTACT 1

RESULT 1762
US-10-310-914A-124050
; Sequence 124050, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 124050
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-124050

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2255 TGTCTCACACCTGTGTCT 2273
Db 19 TGGCTCACACCTGTGTACT 1

RESULT 1763
US-10-310-914A-1244767/c
; Sequence 1244767, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1244767
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; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1244767

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2255 TGTCTCACACCTGTGTCT 2273
Db 19 TGGCTCACACCTGTGTACT 1

RESULT 1764
US-10-310-914A-1249498
; Sequence 1249498, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1249498
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1249498

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.4e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 208 GGGGTGGGTGGGTGGGGGA 226
Db 1 GGGUGGGGGGGUGGGGGGA 19

RESULT 1765
US-10-310-914A-1256056/c
; Sequence 1256056, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1256056
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1256056

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGGC 669
Db 19 CGGCAGCAGCGCGCGGC 1

RESULT 1766
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US-10-310-914A-1259078/c
; Sequence 1259078, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1259078
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1259078

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 1.4e+03;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2255 TGTCTCACACCTGTGCTCT 2273
Db 19 TGTCTCACACCTGTGATCT 1

RESULT 1767
US-10-310-914A-1263402
; Sequence 1263402, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1263402
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1263402

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 1.4e+03;
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 289 CACCTCCTCTCTCTCTCTCG 307
Db 1 CAUCCUCCUCCUCCUCCUGG 19

RESULT 1768
US-10-310-914A-1263517
; Sequence 1263517, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1263517
; LENGTH: 19
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; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1263517

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 1.4e+03;
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 288 CCACCTCTCTCTCTCTCTC 306
Db 1 CCUCCUCCUCCUCCUCCUC 19

RESULT 1769
US-10-310-914A-1263711/c
; Sequence 1263711, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1263711
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1263711

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 285 CCACCACCTCTCTCTCTCTT 303
Db 19 CCTCTCTCTCTCTCTCTCTT 1

RESULT 1770
US-10-310-914A-1263744/c
; Sequence 1263744, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1263744
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1263744

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 281 TCCTCCACCACTCTCTCTCT 299
Db 19 TCCTCTCTCTCTCTCTCTCT 1

RESULT 1771
US-10-310-914A-1263745/c
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; Sequence 1263745, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1263745  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1263745

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 281 TCCTCCACCACTCCCTCCT 299  
||||| ||||| ||||| |||||  
Db 19 TCCTCTCTCTCTCTCTCTCT 1

## RESULT 1772

US-10-310-914A-1263746/c  
; Sequence 1263746, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1263746  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1263746

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 281 TCCTCCACCACTCCCTCCT 299  
||||| ||||| ||||| |||||  
Db 19 TCCTCTCTCTCTCTCTCTCT 1

## RESULT 1773

US-10-310-914A-1276592/c  
; Sequence 1276592, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1276592  
; LENGTH: 19  
; TYPE: RNA

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

; ORGANISM: Human  
US-10-310-914A-1276592

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2644 CCTCTGCCACCACTGTTTC 2662  
||||| ||||| ||||| |||||  
Db 19 CCTCTCCCACTCTGTTTC 1

## RESULT 1774

US-10-310-914A-1278586/c  
; Sequence 1278586, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1278586  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1278586

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2255 TGTCTCACACCTGTGCTCT 2273  
||||| ||||| ||||| |||||  
Db 19 TGGCTCACACCTGTGATCT 1

## RESULT 1775

US-10-310-914A-1281579/c  
; Sequence 1281579, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1281579  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1281579

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGCGG 662  
||||| ||||| ||||| |||||  
Db 19 GCAGCAGCAGCAGCAGCAG 1

## RESULT 1776

US-10-310-914A-1281580/c  
; Sequence 1281580, Application US/10310914A

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; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1281580
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1281580

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCAGCAGCGG 662
Db 19 GCAGCAGCAGCAGCAGCAG 1

RESULT 1777
US-10-310-914A-1283622/c
; Sequence 1283622, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1283622
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1283622

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGCGGG 674
Db 19 GCAGAGCGCGCGCGCGGG 1

RESULT 1778
US-10-310-914A-1296446
; Sequence 1296446, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1296446
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1296446

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2255 TGTCTCACACCTGTGCTCT 2273
Db 19 TGGCTCACACCTGTGATCT 1

RESULT 1781
US-10-310-914A-129969/c
; Sequence 129969, Application US/10310914A
; Publication No. US20060003322A1
```

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US-10-310-914A-1296446

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.4e+03;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 286 CACGACCTCTCTCTCTTC 304
Db 1 CACCCCCUCCUCCACCUUC 19

RESULT 1779
US-10-310-914A-1296447
; Sequence 1296447, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1296447
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1296447

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.4e+03;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 286 CACGACCTCTCTCTCTTC 304
Db 1 CACCCCCUCCUCCACCUUC 19

RESULT 1780
US-10-310-914A-1299246/c
; Sequence 1299246, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1299246
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1299246

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2255 TGTCTCACACCTGTGCTCT 2273
Db 19 TGGCTCACACCTGTGATCT 1

RESULT 1781
US-10-310-914A-129969/c
; Sequence 129969, Application US/10310914A
; Publication No. US20060003322A1
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; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 129969
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-129969

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 647 GCAGCGCGCAGCGCGCGG 665
Db 19 GCGGCGCGCGCAGCGCGG 1

RESULT 1782
US-10-310-914A-1303359/c
; Sequence 1303359, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1303359
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1303359

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 655 AGCAGCGCGCGCGCGCGG 673
Db 19 AGCGCGCGCGCGCGCGG 1

RESULT 1783
US-10-310-914A-1306553/c
; Sequence 1306553, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1306553
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1306553
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Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGG 224
Db 19 GGGGGGGGGGTGCGGGG 1

RESULT 1784
US-10-310-914A-1310928/c
; Sequence 1310928, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1310928
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1310928

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 654 CAGCAGCGCGCGCGCGG 672
Db 19 CGCGCGCGCGCGCGCGG 1

RESULT 1785
US-10-310-914A-1310953/c
; Sequence 1310953, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1310953
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1310953

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGCGG 670
Db 19 GCGGCGCGCGCGCGCGG 1

RESULT 1786
US-10-310-914A-1320883/c
; Sequence 1320883, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
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; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1320883
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1320883

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2255 TGTCTCACACCTGTGTCTCT 2273
DB 19 TGGCTCACACCTGTGTATCT 1

RESULT 1787
US-10-310-914A-1338144
; Sequence 1338144, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1338144
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1338144

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.4e+03;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1950 GGACAGCAGCTTACAGTGAC 1968
DB 1 GCACAGUACCUACAGUGAC 19

RESULT 1788
US-10-310-914A-1340749/c
; Sequence 1340749, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1340749
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1340749
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Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 274 CTCCTCTCTCTCCACCACC 292
DB 19 CTCCTCTCTCTCTCTTACC 1

RESULT 1789
US-10-310-914A-1343670/c
; Sequence 1343670, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1343670
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1343670

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 660 CGGCGCGCGCGGCGCTGT 678
DB 19 CGGCGCGCGCGGCGCGGT 1

RESULT 1790
US-10-310-914A-1344631/c
; Sequence 1344631, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1344631
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1344631

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 474 GAAGGAGGAGATGGCCAG 492
DB 19 GAAGGAGGAGTTGCCATG 1

RESULT 1791
US-10-310-914A-1352034/c
; Sequence 1352034, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
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; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1352034
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1352034

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2088 GGCCTCGGCCCCCACCCT 2106
      ||||| ||||| ||||| ||
Db 19 GGCCTCAGCCCCCACCCT 1

RESULT 1792
US-10-310-914A-1376267/c
; Sequence 1376267, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1376267
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1376267

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 13 GTCTTTCTGGGGTTGGGG 31
      || ||||| ||||| |||||
Db 19 GTATTTCTGGGGCTGGGG 1

RESULT 1793
US-10-310-914A-1386495/c
; Sequence 1386495, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1386495
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1386495

Query Match          0.6%; Score 15.8; DB 1; Length 19;
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```
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCAGCAGCGG 662
      ||||| ||||| ||||| ||
Db 19 GCAGCAGCAGCAGCAGCAGCAG 1

RESULT 1794
US-10-310-914A-145998
; Sequence 145998, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 145998
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-145998

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGCGCGG 670
      ||||| ||||| ||||| ||
Db 1 GCGCGCGCGCGCGCGCGG 19

RESULT 1795
US-10-310-914A-156004/c
; Sequence 156004, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 156004
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-156004

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 654 CAGCAGCGCGCGCGCGGG 672
      ||||| ||||| ||||| ||
Db 19 CGCGCGCGCGCGCGCGGG 1

RESULT 1796
US-10-310-914A-156029/c
; Sequence 156029, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
```



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; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 156029
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-156029

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGCGCG 670
Db 19 GCGCGCGCGCGCGCGCGCG 1

RESULT 1797
US-10-310-914A-157290/c
; Sequence 157290, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 157290
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-157290

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 113 CTGGTCTTCACTCTCTGCC 131
Db 19 CTGGTCTCAACTCTCTGCC 1

RESULT 1798
US-10-310-914A-158706/c
; Sequence 158706, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 158706
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-158706

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
```

```
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 208 GGGGGTGGGGTGGGGGGA 226
Db 19 GGGGGGGGGGGGGGGGGA 1

RESULT 1799
US-10-310-914A-159502
; Sequence 159502, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 159502
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-159502

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.4e+03;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGGTGGGGGGAG 227
Db 1 GGGGUGGGGUGGGUGGGG 19

RESULT 1800
US-10-310-914A-179122/c
; Sequence 179122, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 179122
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-179122

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 220 GGGGGAGGCGAGGGGCGA 238
Db 19 GGGGAGAGGAAGGGGCGA 1

RESULT 1801
US-10-310-914A-180973/c
; Sequence 180973, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
```

```
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 180973
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-180973
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 644 GCAGCAGCGCGCAGCAGCGG 662
Db 19 GCAGCAGCAGCAGCAGCAG 1
```

```
RESULT 1802
US-10-310-914A-180974/c
; Sequence 180974, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 180974
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-180974
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 644 GCAGCAGCGCGCAGCAGCGG 662
Db 19 GCAGCAGCAGCAGCAGCAG 1
```

```
RESULT 1803
US-10-310-914A-182481
; Sequence 182481, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 182481
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-182481
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 652 GCACAGCGCGCGCGCGG 670
Db 1 GCGCGCGCGCGCGCGCGG 19
```

```
RESULT 1804
US-10-310-914A-182482
; Sequence 182482, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 182482
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-182482
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 652 GCACAGCGCGCGCGCGG 670
Db 1 GCGCGCGCGCGCGCGCGG 19
```

```
RESULT 1805
US-10-310-914A-190210
; Sequence 190210, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 190210
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-190210
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 647 GCAGCGCGCGCAGCGCGG 665
Db 1 GCGCGCGCGCGCAGCGCGG 19
```

```
RESULT 1806
US-10-310-914A-197763/c
; Sequence 197763, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
```

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 197763  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-197763

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 647 GCAGCGGCAGCGGCGG 665  
Db 19 GCAGCGGCGGTAGCGGCG 1

## RESULT 1807

US-10-310-914A-197764/c  
; Sequence 197764, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 197764  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-197764

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 647 GCAGCGGCAGCGGCGG 665  
Db 19 GCAGCGGCGGTAGCGGCG 1

## RESULT 1808

US-10-310-914A-197782/c  
; Sequence 197782, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 197782  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-197782

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 207 GCGGGGTGGGTGGGGGG 225  
Db 19 GTGGGGTGGGTGGGGGAG 1

## RESULT 1809

US-10-310-914A-205387  
; Sequence 205387, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 205387  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-205387

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 78.9%; Pred. No. 1.4e+03;  
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 206 GCGGGGTGGGTGGGGGG 224  
Db 1 GUGGGGGGUGAGGGG 19

## RESULT 1810

US-10-310-914A-214539/c  
; Sequence 214539, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 214539  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-214539

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 635 GCGGTGCAGGCAGCGG 653  
Db 19 GCGGTGCAGGCAGCGGCG 1

## RESULT 1811

US-10-310-914A-221944  
; Sequence 221944, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01



; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 241036  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-241036

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGCGG 662  
Db 19 GCAGCAGCAGCAGCAGCAG 1

## RESULT 1817

US-10-310-914A-241820  
; Sequence 241820, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 241820  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-241820

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 645 CAGCAGCGGCAGCAGCGGC 663  
Db 1 CAGCAGCAGCAGCAGCGGC 19

## RESULT 1818

US-10-310-914A-243582/c  
; Sequence 243582, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 243582  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-243582

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2083 CCCCTGGCTCGGCCCCCA 2101  
|||||

Db 19 CCCCTGGCCCCCGCCCCCA 1

## RESULT 1819

US-10-310-914A-253769  
; Sequence 253769, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 253769  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-253769

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGGGG 674  
Db 1 GCAGCGCGCGCGCGGGCG 19

## RESULT 1820

US-10-310-914A-253776  
; Sequence 253776, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 253776  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-253776

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGCAGCAGCGCGCGCGG 668  
Db 1 GCGCAGCAGCGCGCGCGG 19

## RESULT 1821

US-10-310-914A-257947/c  
; Sequence 257947, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 257947  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-257947

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 655 AGCAGCGCGCGCGCGGG 673  
Db 19 AGGGCGCGCGCGCGGG 1

## RESULT 1822

US-10-310-914A-262258/c  
; Sequence 262258, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 262258

; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human

US-10-310-914A-262258

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 654 CAGCAGCGCGCGCGCGGG 672  
Db 19 CGCGCGCGCGCGCGGG 1

## RESULT 1823

US-10-310-914A-270233  
; Sequence 270233, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 270233

; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human

US-10-310-914A-270233

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCGAGCGCGCGCGGC 669  
Db 1 CGGCGCGCGCGCGGC 19

## RESULT 1824

US-10-310-914A-272297  
; Sequence 272297, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 272297

; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human

US-10-310-914A-272297

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 84.2%; Pred. No. 1.4e+03;  
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 659 GCGCGCGCGCGCGGCTG 677  
Db 1 GCGCGCGCGCGCGGCG 19

## RESULT 1825

US-10-310-914A-276546/c  
; Sequence 276546, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 276546

; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human

US-10-310-914A-276546

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 208 GCGGTTGGGTGGGGGA 226  
Db 19 GCGGTTGGGTGGGAGGA 1

## RESULT 1826

US-10-310-914A-294432  
; Sequence 294432, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402

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; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 294432
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-294432

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.4e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 214 GGGGTGGGGGAGGAGG 232
      ||||:|||||
Db 1 GGGGUGGGGAGGAGGAGG 19

RESULT 1827
US-10-310-914A-294597
; Sequence 294597, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 294597
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-294597

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.4e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 214 GGGGTGGGGGAGGAGG 232
      ||||:|||||
Db 1 GGGGUGGGGAGGAGGAGG 19

RESULT 1828
US-10-310-914A-294780
; Sequence 294780, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 294780
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-294780

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.4e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 214 GGGGTGGGGGAGGAGG 232
      ||||:|||||
Db 1 GGGGUGGGGAGGAGGAGG 19

RESULT 1829
US-10-310-914A-294964
; Sequence 294964, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 294964
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-294964

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.4e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 214 GGGGTGGGGGAGGAGG 232
      ||||:|||||
Db 1 GGGGUGGGGAGGAGGAGG 19

RESULT 1830
US-10-310-914A-295126
; Sequence 295126, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 295126
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-295126

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.4e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 214 GGGGTGGGGGAGGAGG 232
      ||||:|||||
Db 1 GGGGUGGGGAGGAGGAGG 19

RESULT 1831
US-10-310-914A-295293
; Sequence 295293, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
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; SEQ ID NO 295293  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-295293

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 84.2%; Pred. No. 1.4e+03;  
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 214 GGGGTGGGGGAGGAGG 232  
|||||  
Db 1 GGGGUGGGAGGAGGAGG 19

RESULT 1832

US-10-310-914A-295447  
; Sequence 295447, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 295447  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-295447

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 84.2%; Pred. No. 1.4e+03;  
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 214 GGGGTGGGGGAGGAGG 232  
|||||  
Db 1 GGGGUGGGAGGAGGAGG 19

RESULT 1833

US-10-310-914A-295599  
; Sequence 295599, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 295599  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-295599

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 84.2%; Pred. No. 1.4e+03;  
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 214 GGGGTGGGGGAGGAGG 232  
|||||  
Db 1 GGGGUGGGAGGAGGAGG 19

RESULT 1834

US-10-310-914A-295911  
; Sequence 295911, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 295911  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-295911

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 84.2%; Pred. No. 1.4e+03;  
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 214 GGGGTGGGGGAGGAGG 232  
|||||  
Db 1 GGGGUGGGAGGAGGAGG 19

RESULT 1835

US-10-310-914A-296087  
; Sequence 296087, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 296087  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-296087

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 84.2%; Pred. No. 1.4e+03;  
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 214 GGGGTGGGGGAGGAGG 232  
|||||  
Db 1 GGGGUGGGAGGAGGAGG 19

RESULT 1836

US-10-310-914A-296265  
; Sequence 296265, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 296265





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; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-297053

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.4e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 214 GGGGTGGGGGAGGAGG 232
      ||||| ||||| ||||| |||||
Db 1 GGGGUGGGAGGAGGAGG 19

RESULT 1842
US-10-310-914A-297210
; Sequence 297210, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 297210
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-297210

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.4e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 214 GGGGTGGGGGAGGAGG 232
      ||||| ||||| ||||| |||||
Db 1 GGGGUGGGAGGAGGAGG 19

RESULT 1843
US-10-310-914A-297370
; Sequence 297370, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 297370
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-297370

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.4e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 214 GGGGTGGGGGAGGAGG 232
      ||||| ||||| ||||| |||||
Db 1 GGGGUGGGAGGAGGAGG 19

RESULT 1844
US-10-310-914A-297553
; Sequence 297553, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 297553
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-297553

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.4e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 214 GGGGTGGGGGAGGAGG 232
      ||||| ||||| ||||| |||||
Db 1 GGGGUGGGAGGAGGAGG 19

RESULT 1845
US-10-310-914A-297715
; Sequence 297715, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 297715
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-297715

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.4e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 214 GGGGTGGGGGAGGAGG 232
      ||||| ||||| ||||| |||||
Db 1 GGGGUGGGAGGAGGAGG 19

RESULT 1846
US-10-310-914A-297873
; Sequence 297873, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 297873
; LENGTH: 19
; TYPE: RNA
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; ORGANISM: Human  
US-10-310-914A-298169

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 84.2%; Pred. No. 1.4e+03;  
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 214 GCGGTGGGGGAGGAGG 232  
|||||  
DB 1 GCGGUGGAGGAGGAGG 19

## RESULT 1847

US-10-310-914A-298169  
; Sequence 298169, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 298169  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-298169

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGAGCAGCGCGGCGG 668  
|||||  
DB 1 GCAGCAGCAGCGGCGG 19

## RESULT 1848

US-10-310-914A-305897/c  
; Sequence 305897, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 305897  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-305897

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 204 CCGGGGGGTGGGTGGGG 222  
|||||  
DB 19 CCGGGGGGTGGGTGGGG 1

## RESULT 1849

US-10-310-914A-316078  
; Sequence 316078, Application US/10310914A

; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 316078  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-316078

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 78.9%; Pred. No. 1.4e+03;  
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 544 ACCTACCGCAGCACCCCTGC 562  
|||||  
DB 1 ACCUACCCACCCCCUGC 19

## RESULT 1850

US-10-310-914A-320872/c  
; Sequence 320872, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 320872  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-320872

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GCGGGGGTGGGTGGGGG 224  
|||||  
DB 19 GCGGGGGGGGGGGGGG 1

## RESULT 1851

US-10-310-914A-320873/c  
; Sequence 320873, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 320873  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human

US-10-310-914A-320873

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTGGTGGGGG 224  
||||| ||||| ||||| |||||  
DB 19 GGGGGGGGGGGGGGGG 1

RESULT 1852

US-10-310-914A-324416/c  
; Sequence 324416, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 324416

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-324416

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGGC 669  
||||| ||||| ||||| |||||  
DB 19 CGCGCGCGCGCGCGGC 1

RESULT 1853

US-10-310-914A-324417/c  
; Sequence 324417, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 324417

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-324417

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGGC 669  
||||| ||||| ||||| |||||  
DB 19 CGCGCGCGCGCGCGGC 1

RESULT 1854

US-10-310-914A-326523  
; Sequence 326523, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 326523

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-326523

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGGC 669  
||||| ||||| ||||| |||||  
DB 1 CGCGCGCGCGCGCGGC 19

RESULT 1855

US-10-310-914A-329260/c  
; Sequence 329260, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 329260

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-329260

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1294 GTTCGACTGTGTGCTGCC 1312  
||||| ||||| ||||| |||||  
DB 19 GTTCACACTGTGTGCTGCC 1

RESULT 1856

US-10-310-914A-338585/c  
; Sequence 338585, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 338585

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-338585

```
Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGGC 659
Db 19 CGCGCGCAGCGCTGCGGC 1

RESULT 1857
US-10-310-914A-344414
; Sequence 344414, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 344414
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-344414

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.4e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 659 GCGCGCGCGCGCGGCTG 677
Db 1 GCGCGCGCGGCGGCGGCG 19

RESULT 1858
US-10-310-914A-344583/C
; Sequence 344583, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 344583
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-344583

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 283 CTCACCACTCTCTCTCC 301
Db 19 CACCACCACTCTCTCTCC 1

RESULT 1859
US-10-310-914A-346568/C
; Sequence 346568, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
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; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 346568
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-346568
```

```
Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGGCG 670
Db 19 GGCAGCAGCAGCGGTGGCG 1
```

```
RESULT 1860
US-10-310-914A-353464
; Sequence 353464, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 353464
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-353464
```

```
Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.4e+03;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 210 GGTGGTGGTGGGGGGGAGG 228
Db 1 GGGUGGGGUGAGGGGGGUGG 19
```

```
RESULT 1861
US-10-310-914A-374266
; Sequence 374266, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 374266
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-374266
```

```
Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 645 CAGCAGCGGCGAGCGCGC 663
      ||||| ||||| |||||
Db 1 CAGCAGCAGCAGGAGCGGC 19

RESULT 1862
US-10-310-914A-374337/c
; Sequence 374337, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 374337
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-374337

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 TCCTGCTCTCTCTCTCTCC 286
      ||||| ||||| |||||
Db 19 TCCTGCTCTCTCTCTCTCC 1

RESULT 1863
US-10-310-914A-397057
; Sequence 397057, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 397057
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-397057

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 1.4e+03;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 287 ACCACTCTCTCTCTCTCT 305
      ||||| ||||| |||||
Db 1 ACGACCUCCUCCUCCUCCU 19

RESULT 1864
US-10-310-914A-398379
; Sequence 398379, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
```

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```
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 398379
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-398379

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.4e+03;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 213 TCGGGGTGGGGGAGGCAG 231
      :|||: ||||| |||||
Db 1 UGGGGUGUGGGGAGGCUG 19

RESULT 1865
US-10-310-914A-399084
; Sequence 399084, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 399084
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-399084

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGGC 669
      ||||| ||||| |||||
Db 1 CGGCAGCGCGCGCGCGGC 19

RESULT 1866
US-10-310-914A-399553
; Sequence 399553, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 399553
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-399553

Query Match          0.6%; Score 15.8; DB 1; Length 19;
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```
Best Local Similarity 84.2%; Pred. No. 1.4e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 661 GCGCGCGCGCGCGCTGTG 679
Db 1 GCGCGCGCGCGUGGCAG 19

RESULT 1867
US-10-310-914A-414657/c
; Sequence 414657, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 414657
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-414657

Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 638 GTGCGAGCGAGCGGCAG 656
Db 19 GCGCAGCGAGCGGCAG 1

RESULT 1868
US-10-310-914A-416480/c
; Sequence 416480, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 416480
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-416480

Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 643 GCGCAGCGCGCGCAGCG 661
Db 19 GCGCGCGCGCGCAGCG 1

RESULT 1869
US-10-310-914A-416481/c
; Sequence 416481, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 416481
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-416481
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; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 416481
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-416481

Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 643 GCGCAGCGCGCGCAGCG 661
Db 19 GCGCGCGCGCGCAGCG 1

RESULT 1870
US-10-310-914A-425446/c
; Sequence 425446, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 425446
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-425446

Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2645 CTCGCGCCACCGCTTTC 2663
Db 19 CTCGCGCCACCGCTTTC 1

RESULT 1871
US-10-310-914A-43037
; Sequence 43037, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 43037
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-43037

Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 1.4e+03;
```

Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 288 CCACCTCCTCCTCCTCTC 306  
||||:|:|:|:|:|:|:|:  
Db 1 CCACCUUCUCCUCCUCCUC 19

## RESULT 1872

US-10-310-914A-434967  
; Sequence 434967, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 434967  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-434967

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 68.4%; Pred. No. 1.4e+03;  
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 273 CCTCCTCCTCCTCCACAC 291  
||:|:|:|:|:|:|:  
Db 1 CCUCCUCCUCCUCCUCCC 19

## RESULT 1873

US-10-310-914A-441166/c  
; Sequence 441166, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 441166  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-441166

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 661 GGCGGCGGGGGCTGTG 679  
|||||:|:|:|:|:|:|:  
Db 19 GGCGGTGGTGGGCTGTG 1

## RESULT 1874

US-10-310-914A-443893  
; Sequence 443893, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 443893  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-443893

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 645 CAGCAGCGGCAGCAGCGC 663  
|||||:|:|:|:|:|:|:  
Db 1 CAGCAGCAGCAGCAGCAGC 19

## RESULT 1875

US-10-310-914A-456402/c  
; Sequence 456402, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 456402  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-456402

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGCG 662  
|||||:|:|:|:|:|:|:  
Db 19 GCAGCAGCAGCAGCAGCAG 1

## RESULT 1876

US-10-310-914A-456403/c  
; Sequence 456403, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 456403  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-456403

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;



QY 644 GCAGCAGCGGCAGCAGCGG 662  
| | | | | | | | | | | | | | | |  
Db 19 GCAGCAGCGGCAGCAGCAG 1

RESULT 1877  
US-10-310-914A-457439/c  
; Sequence 457439, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 457439  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-457439

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2535 AGACATATATGACATATA 2553  
| | | | | | | | | | | | | | | |  
Db 19 ATACATATATACATATA 1

RESULT 1878  
US-10-310-914A-46212/c  
; Sequence 46212, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 46212  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-46212

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGGGG 674  
| | | | | | | | | | | | | | | |  
Db 19 GCGGCGCGCGCGCGGTGG 1

RESULT 1879  
US-10-310-914A-463713/c  
; Sequence 463713, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 463713  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-463713

FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 463713  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-463713

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGCGG 662  
| | | | | | | | | | | | | | | |  
Db 19 GCAGCAGCGGCAGCAGCAG 1

RESULT 1880  
US-10-310-914A-484810  
; Sequence 484810, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 484810  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-484810

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 84.2%; Pred. No. 1.4e+03;  
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2078 CCCAGCCCCGCGCCUCCG 2096  
| | | | | | | | | | | | | | | |  
Db 1 CCCAGCCCCGCGCCUCCG 19

RESULT 1881  
US-10-310-914A-488226/c  
; Sequence 488226, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 488226  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-488226

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2738 CCTGCCCTCCAGCTGGT 2756  
Db 19 CCTCCCCCTCCAGCGGGT 1

## RESULT 1882

US-10-310-914A-496979/c  
; Sequence 496979, Application US/10310914A  
; Publication No. US20060003322A1

## GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 496979

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-496979

Query Match 0.8%; Score 15.8; DB 1; Length 19;

Best Local Similarity 89.5%; Pred. No. 1.4e+03;

Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCGCGCGCGGC 669

Db 19 CGCGCGCGCGCGCGGC 1

## RESULT 1883

US-10-310-914A-512311  
; Sequence 512311, Application US/10310914A  
; Publication No. US20060003322A1

## GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 512311

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-512311

Query Match 0.6%; Score 15.8; DB 1; Length 19;

Best Local Similarity 78.9%; Pred. No. 1.4e+03;

Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGTGGGTGGGGGGAG 227

Db 1 GGGGUGGGUGGGUGGG 19

## RESULT 1884

US-10-310-914A-512689  
; Sequence 512689, Application US/10310914A  
; Publication No. US20060003322A1

## GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

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Db      1 GCGGCGCGCGCGGUGGCG 19
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RESULT 1887
US-10-310-914A-522949/c
; Sequence 522949, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 522949
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-522949

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      647 GCAGCGCGCAGCGCGCGG 665
Db      19 GCAGCTGCAGCGCGCAG 1
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RESULT 1888
US-10-310-914A-526128/c
; Sequence 526128, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 526128
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-526128

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      281 TCCTCCACCACTCTCTCT 299
Db      19 TCCTCTCTCTCTCTCTCT 1
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RESULT 1889
US-10-310-914A-536232
; Sequence 536232, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
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; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 536232
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-536232

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      650 GCGGCGCGCAGCGCGCGG 668
Db      1 GCGGCGCGCGCGCGCGG 19
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RESULT 1890
US-10-310-914A-536251
; Sequence 536251, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 536251
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-536251

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.4e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      661 GCGCGCGCGCGCGGCTGTG 679
Db      1 GCGCGCGCGCGCGCGGUG 19
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RESULT 1891
US-10-310-914A-539960/c
; Sequence 539960, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 539960
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-539960

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      647 GCAGCGCGCAGCGCGCGG 665
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Db      19 GCAGCGCGCGCAGCGCAG 1
;
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 556790
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-556790

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      310 TCCTCCCGCTCCCGTCT 328
Db      19 TCCTCCCGCTCCCGTCT 1

RESULT 1895
US-10-310-914A-564618
; Sequence 564618, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 564618
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-564618

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 1.4e+03;
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY      267 CTCCTGCCTCCTCCTCCTC 285
Db      1 CUCGUGCCUCCUGCCUCCUC 19

RESULT 1896
US-10-310-914A-566727/c
; Sequence 566727, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 566727
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-566727

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      765 CTGTGGCGCTCTCTTTGAG 783
Db      19 CTGTGGGCATCTCTTTGGG 1

Db      19 GCAGCGCGCGCAGCGCAG 1
;
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 556790
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-556790

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      648 CAGCGCGCAGCGCGCGGC 666
Db      1 CAGCGCGCAGCGCGCGGC 19

RESULT 1893
US-10-310-914A-549685/c
; Sequence 549685, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 549685
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-549685

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      204 CCGGGGGGGTGGGTGGGG 222
Db      19 CCGAGGGCGTGGGTGGGG 1

RESULT 1894
US-10-310-914A-556790/c
; Sequence 556790, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
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; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 617241
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-617241

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.4e+03;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 209 GGGTGGGCGGCGGGGAG 227
Db 1 GGGGUGGGUGGGGGGGG 19

RESULT 1900
US-10-310-914A-62890/c
; Sequence 62890, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 62890
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-62890

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 898 GGGGCGGGGCGGCGCGAG 916
Db 19 GGGGCGGGGCGGCGCGG 1

RESULT 1901
US-10-310-914A-629657/c
; Sequence 62957, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 629657
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-629657

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 650 GCGGCGAGCGGCGGCGG 668
Db 19 GCGGCGGCGGCGGCGG 1

; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 617241
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-617241

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.4e+03;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 209 GGGTGGGCGGCGGGGAG 227
Db 1 GGGGUGGGUGGGGGGGG 19

RESULT 1900
US-10-310-914A-62890/c
; Sequence 62890, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 62890
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-62890

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 651 GCGGCGAGCGGCGGCGG 669
Db 19 GCGGCGGCGGCGGCGG 1

RESULT 1898
US-10-310-914A-587649/c
; Sequence 587649, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 587649
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-587649

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 656 GCAGCGGCGGCGGCGG 674
Db 19 GCGGCGGCGGCGGCGG 1

RESULT 1899
US-10-310-914A-617241
; Sequence 617241, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
```



```
RESULT 1907
US-10-310-914A-65121
; Sequence 65121, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 65121
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-65121

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 899 GGGGGGGGGTGGCGCAGG 917
Db 1 GGGGGGGGGGAGGCACAGG 19

RESULT 1908
US-10-310-914A-651884
; Sequence 651884, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 651884
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-651884

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 899 GGGGGGGGGTGGCGCAGG 917
Db 1 GGGGGGGGGGAGGCACAGG 19

RESULT 1909
US-10-310-914A-657828/c
; Sequence 657828, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 657828
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-657828/c

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.4e+03;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2085 CCTGGCTCGGCCCCACC 2103
Db 1 CCUGGCCUCUGCCCCCUCC 19
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US-10-310-914A-657828
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-657828

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2535 AGACATATATGCACATATA 2553
Db 19 ATACATATATACACATATA 1

RESULT 1910
US-10-310-914A-667226/c
; Sequence 667226, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 667226
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-667226

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2656 CTGTTTCCCCACCCCTCT 2674
Db 19 CTCITCCCCCACCCCTCT 1

RESULT 1911
US-10-310-914A-67396
; Sequence 67396, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 67396
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-67396

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.4e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 202 CCCCCGGGGGTGGGTGG 220
Db 1 CCCCCAGGGGGGUGGGAGG 19

RESULT 1912
```





```
; Sequence 711944, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 711944
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-711944

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 210 GGGTGGGCTGGGGCGGAGG 228
Db 19 GGGTGGGCTGGGGCTGAGG 1

RESULT 1918
US-10-310-914A-717566/c
; Sequence 717566, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 717566
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-717566

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 654 CAGCAGCGCGCGCGCGGG 672
Db 19 CGCGCGCGCGCGCGCGGG 1

RESULT 1919
US-10-310-914A-72329/c
; Sequence 72329, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 72329
; LENGTH: 19
; TYPE: RNA
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; ORGANISM: Human
US-10-310-914A-72329

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 642 AGGCAGCAGCGCGGAGCAGC 660
Db 19 AGCCAGCAGAGGCGAGCAGC 1

RESULT 1920
US-10-310-914A-726797/c
; Sequence 726797, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 726797
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-726797

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 654 CAGCAGCGCGCGCGCGGG 672
Db 19 CGCGCGCGCGCGCGCGGG 1

RESULT 1921
US-10-310-914A-726804/c
; Sequence 726804, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 726804
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-726804

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGCAGCAGCGCGGCGGG 668
Db 19 GCGGCGCGCGCGCGCGGG 1

RESULT 1922
US-10-310-914A-730607/c
; Sequence 730607, Application US/10310914A
```

; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 730607  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-730607

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 207 GGGGGGTGGGTGGGGGG 225  
||| ||||| ||||| |||||  
Db 19 GGAGGGTGGGCTGGGGGG 1

## RESULT 1923

US-10-310-914A-736445  
; Sequence 736445, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 736445  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-736445

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 63.2%; Pred. No. 1.4e+03;  
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1565 TGGCCCTGGGTGTCTCAT 1583  
: ||||| : ||||| : ||||| :  
Db 1 UGGCCCUUGGUGUGCCCU 19

## RESULT 1924

US-10-310-914A-763888  
; Sequence 763888, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 763888  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human

## US-10-310-914A-763888

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 52.6%; Pred. No. 1.4e+03;  
Matches 10; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

QY 1491 CTTTGTGGGCTGCGTGTG 1509  
|:::|:|||||: |:|:|  
Db 1 CUUUGUGGGGCUUGGUGUG 19

## RESULT 1925

US-10-310-914A-768369  
; Sequence 768369, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 768369  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-768369

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 57.9%; Pred. No. 1.4e+03;  
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 288 CCACCTCTCTCTCTTCTC 306  
||| |:|: |||||:|  
Db 1 CCUCCUCCUCCUCCUUCUC 19

## RESULT 1926

US-10-310-914A-790488/c  
; Sequence 790488, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 790488  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-790488

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 204 CCGGGGGGTGGGTGGGG 222  
||||| ||||| ||||| |||||  
Db 19 CCGGGGCGGGGGGTGGGG 1

## RESULT 1927

US-10-310-914A-792977/c  
; Sequence 792977, Application US/10310914A  
; Publication No. US20060003322A1

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; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 792977
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-792977

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 655 AGCAGCGCGCGCGCGGG 673
Db 19 AGAGCGCGCGCGCGGG 1

RESULT 1928
US-10-310-914A-807661
; Sequence 807661, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 807661
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-807661

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.4e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 661 GCGCGCGCGCGGGTGTG 679
Db 1 GCGCGCGCGCGCGGUG 19

RESULT 1929
US-10-310-914A-815964/c
; Sequence 815964, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 815964
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-815964
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Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 282 CCTCCACACCTCTCTCTC 300
Db 19 CGCCACACCTCTCTCTC 1

RESULT 1930
US-10-310-914A-816483/c
; Sequence 816483, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 816483
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-816483

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GCGACGCGCGCGCGGG 670
Db 19 GCGCGCGCGCGCGGG 1

RESULT 1931
US-10-310-914A-820753
; Sequence 820753, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 820753
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-820753

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.4e+03;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 262 ACCACCTCTCTCTCTCTC 280
Db 1 ACCACCGCGCGCGCGGG 19

RESULT 1932
US-10-310-914A-821949
; Sequence 821949, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
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; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 821949
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-821949

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1956 CACCTACAGTGACACGAGC 1974
    |||||:||||: |||||
Db 1 CACCUACAGUACACGAGC 19

RESULT 1933
US-10-310-914A-82387
; Sequence 82387, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 82387
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-82387

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 645 CAGCAGCGGCAGCAGCGGC 663
    |||||:||||: |||||
Db 1 CAGCAGCAGCAGCAGCGGC 19

RESULT 1934
US-10-310-914A-828702/c
; Sequence 828702, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 828702
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-828702
```

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Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 661 GCGCGCGCGCGGGCTGTG 679
    |||||:||||: |||||
Db 19 GCGCGCGCGCGGGCGGCG 1

RESULT 1935
US-10-310-914A-831663
; Sequence 831663, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 831663
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-831663

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.4e+03;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 208 GCGGGTGGGTGGGGGGGA 226
    |||||:||||: |||||
Db 1 GCGGGUGGGUGGUGGGCA 19

RESULT 1936
US-10-310-914A-831671
; Sequence 831671, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 831671
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-831671

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.4e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 216 GGTGGGGGGGAGCAGCGGG 234
    |||||:||||: |||||
Db 1 GGUGGAGGAGAGCAGCGGG 19

RESULT 1937
US-10-310-914A-837494/c
; Sequence 837494, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
```

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; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 837494
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-837494

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 645 CAGCAGCGCGCAGCGCGC 663
Db 19 CAGCAGCGCGCAGCGCAGC 1

RESULT 1938
US-10-310-914A-839758
; Sequence 839758, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 839758
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-839758

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGCAGCAGCGCGCGCGCGC 669
Db 1 CAGCAGCAGCGCGCGGAGC 19

RESULT 1939
US-10-310-914A-839775
; Sequence 839775, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 839775
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-839775

Query Match      0.6%; Score 15.8; DB 1; Length 19;
```

```
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGCAGCAGCGCGCGCGG 668
Db 1 GCAGCAGCAGCGCGCGAGG 19

RESULT 1940
US-10-310-914A-839851
; Sequence 839851, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 839851
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-839851

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGCAGCAGCGCGCGCGG 668
Db 1 GCGGCACACAGCGCGCAGCG 19

RESULT 1941
US-10-310-914A-839961/c
; Sequence 839961, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 839961
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-839961

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGCGGG 674
Db 19 GCAGCGCGCGCGCGGGGG 1

RESULT 1942
US-10-310-914A-84849/c
; Sequence 84849, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
```

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; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 84849
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-84849

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 647 GCAGCGCGCAGCGCGCGG 665
Db 19 GCGCGCGCGCAGCGCGG 1

RESULT 1943
US-10-310-914A-872019/c
; Sequence 872019, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 872019
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-872019

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCGCGCGCGCGCGG 669
Db 19 CGGCGCGCGCGCGCGG 1

RESULT 1944
US-10-310-914A-875911/c
; Sequence 875911, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 875911
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-875911

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
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Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 210 GCGTGGGTGGGGGAGG 228
Db 19 GGTGGGAGGAGGAGG 1

RESULT 1945
US-10-310-914A-878407
; Sequence 878407, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 878407
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-878407

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.4e+03;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 661 GCGGGCGCGGGCTGTG 679
Db 1 GCGCGCGCGCGGCUCUG 19

RESULT 1946
US-10-310-914A-88238
; Sequence 88238, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 88238
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-88238

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GCGCGCGCGCGCGCGG 670
Db 1 GCGCGCGCGCGCGCGG 19

RESULT 1947
US-10-310-914A-894312/c
; Sequence 894312, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
```

; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 894312  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-894312

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 208 GGGGGTGGGGTGGGGGGA 226  
||||| |||||||  
Db 19 GGGGGGGGGTGGGGGGA 1

RESULT 1948  
US-10-310-914A-89446/c  
; Sequence 89446, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 89446  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-89446

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGCGG 662  
||||| |||||||  
Db 19 GCAGCAGCAGCAGCAGCAG 1

RESULT 1949  
US-10-310-914A-900557  
; Sequence 900557, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 900557  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-900557

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 647 GCAGCGGCAGCAGCGCGG 665  
||||| |||||||  
Db 1 GCAGCGGCAGCAGCGCGG 19  
RESULT 1950  
US-10-310-914A-906159  
; Sequence 906159, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 906159  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-906159

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 63.2%; Pred. No. 1.4e+03;  
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 281 TCCTCCACACCTCTCTCT 299  
:||: ||| ||| ||| |||  
Db 1 UCCUCCUGCGGCUCCUCCU 19

RESULT 1951  
US-10-310-914A-908424  
; Sequence 908424, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 908424  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-908424

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGCGG 668  
||||| |||||||  
Db 1 GCGGCAGCAGCGCGCGG 19

RESULT 1952  
US-10-310-914A-912875/c  
; Sequence 912875, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 912875  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-912875

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 212 GTGGGTGGGGGAGGCCA 230  
DB 19 GGGGGTGGGGGAGGCCA 1

RESULT 1953  
US-10-310-914A-918373  
; Sequence 918373, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 918373  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-918373

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 57.9%; Pred. No. 1.4e+03;  
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 288 CCACCTCTCTCTCTCTC 306  
DB 1 CCCCCUUCUCCUUCUC 19

RESULT 1954  
US-10-310-914A-926053  
; Sequence 926053, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 926053  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-926053

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 52.6%; Pred. No. 1.4e+03;  
Matches 10; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

QY 2559 TATATTCATACATACTATA 2577  
DB 1 UUAUGCAUUCACUAUA 19

RESULT 1955  
US-10-310-914A-938135/c  
; Sequence 938135, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 938135  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-938135

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 654 CAGCAGCGCGCGCGGG 672  
DB 19 CGCGCGCGCGCGCGGG 1

RESULT 1956  
US-10-310-914A-938136  
; Sequence 938136, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 938136  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-938136

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 191 CCGCTCTCCGAGCCCCGGG 209  
DB 1 CCGCGCGCGAGCCCCGGG 19

RESULT 1957  
US-10-310-914A-939252/c  
; Sequence 939252, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01



; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 939252  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-939252

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 294 CTTCTCTCTCTCTCTCC 312  
Db 19 CTTCTCTCTCTCTCTCC 1

## RESULT 1958

US-10-310-914A-947827/c  
; Sequence 947827, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 947827  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-947827

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GCGAGCGGGCGGGCGG 670  
Db 19 GCGGGCGGGCGGGCGG 1

## RESULT 1959

US-10-310-914A-972982/c  
; Sequence 972982, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 972982  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-972982

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 270 CTGCTCTCTCTCTCCAC 288

Db 19 CGGCTCTCTCTCTCTCCG 1

## RESULT 1960

US-10-310-914A-974494/c  
; Sequence 974494, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 974494  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-974494

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2068 GCTGGCTTCACCCAGCCCC 2086  
Db 19 GCTGGCTTCACCCAGTCCC 1

## RESULT 1961

US-10-310-914A-982968/c  
; Sequence 982968, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 982968  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-982968

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGGGCGGGCGGG 674  
Db 19 GCGGGCGGGCGGGCGGG 1

## RESULT 1962

US-10-310-914A-983797/c  
; Sequence 983797, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A

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; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 983797
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-983797

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 654 CAGCAGCGCGCGCGCGG 672
Db 19 CGCGCGCGCGCGCGCGG 1

RESULT 1963
US-10-310-914A-984218/c
; Sequence 984218, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 984218
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-984218

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2399 ACTCTGCAACCCAGGCACG 2417
Db 19 ACTCTGCAACCCAGGCACG 1

RESULT 1964
US-10-310-914A-987281/c
; Sequence 987281, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 987281
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-987281

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCGCGG 662
Db 19 CGCGCGCGCGCGCGCGG 1

RESULT 1965
US-10-310-914A-988101/c
; Sequence 988101, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 988101
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-988101

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GCGGGGGTGGGTGGGGG 224
Db 19 GTGGGGCGCGGTGGGGG 1

RESULT 1966
US-10-310-914A-992030
; Sequence 992030, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 992030
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-992030

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGCGCGG 670
Db 1 GCGCGCAGCGGUGCGCGG 19

RESULT 1967
US-10-310-914A-999090/c
; Sequence 999090, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
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; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 999090  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-999090

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 905 GCGGTGGCGCGCGCGG 923  
Db 19 GCGGTGGAGCAGACCGG 1

## RESULT 1968

US-10-923-476A-141/c  
; Sequence 141, Application US/10923476A  
; Publication No. US20050288242A1  
; GENERAL INFORMATION:  
; APPLICANT: McSwiggen, James  
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of RAS Gene Expression Using  
; FILE REFERENCE: 400/231 (MBH01-1158-B)  
; CURRENT APPLICATION NUMBER: US/10/923,476A  
; CURRENT FILING DATE: 2004-08-20  
; PRIOR APPLICATION NUMBER: US 10/238,700  
; PRIOR FILING DATE: 2002-09-10  
; PRIOR APPLICATION NUMBER: PCT/US02/16840  
; PRIOR FILING DATE: 2002-05-29  
; PRIOR APPLICATION NUMBER: US 10/757,803  
; PRIOR FILING DATE: 2004-01-14  
; PRIOR APPLICATION NUMBER: PCT/US04/16390  
; PRIOR FILING DATE: 2004-05-24  
; PRIOR APPLICATION NUMBER: US 10/826,966  
; PRIOR FILING DATE: 2004-04-16  
; PRIOR APPLICATION NUMBER: US 10/720,448  
; PRIOR FILING DATE: 2004-01-14  
; PRIOR APPLICATION NUMBER: US 10/693,059  
; PRIOR FILING DATE: 2003-10-23  
; PRIOR APPLICATION NUMBER: US 10/444,853  
; PRIOR FILING DATE: 2003-05-23  
; PRIOR APPLICATION NUMBER: PCT/US03/05346  
; PRIOR FILING DATE: 2003-02-20  
; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 766  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 141  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic  
US-10-923-476A-141

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 657 CAGCGCGCGCGCGCGG 675  
Db 19 CAGCGCGCGCGCAGTGGC 1

## RESULT 1969

US-10-923-476A-66  
; Sequence 66, Application US/10923476A  
; Publication No. US20050288242A1

## ; GENERAL INFORMATION:

; APPLICANT: Sirna Therapeutics, Inc.  
; APPLICANT: McSwiggen, James  
; TITLE OF INVENTION: RNA Interference Mediated Inhibition Of RAS Gene Expression Using  
; FILE REFERENCE: 400/231 (MBH01-1158-B)  
; CURRENT APPLICATION NUMBER: US/10/923,476A  
; CURRENT FILING DATE: 2004-08-20  
; PRIOR APPLICATION NUMBER: US 10/238,700  
; PRIOR FILING DATE: 2002-09-10  
; PRIOR APPLICATION NUMBER: PCT/US02/16840  
; PRIOR FILING DATE: 2002-05-29  
; PRIOR APPLICATION NUMBER: US 60/318,471  
; PRIOR FILING DATE: 2001-09-10  
; PRIOR APPLICATION NUMBER: PCT/US04/16390  
; PRIOR FILING DATE: 2004-05-24  
; PRIOR APPLICATION NUMBER: US 10/826,966  
; PRIOR FILING DATE: 2004-04-16  
; PRIOR APPLICATION NUMBER: US 10/757,803  
; PRIOR FILING DATE: 2004-01-14  
; PRIOR APPLICATION NUMBER: US 10/720,448  
; PRIOR FILING DATE: 2003-11-24  
; PRIOR APPLICATION NUMBER: US 10/693,059  
; PRIOR FILING DATE: 2003-10-23  
; PRIOR APPLICATION NUMBER: US 10/444,853  
; PRIOR FILING DATE: 2003-05-23  
; PRIOR APPLICATION NUMBER: PCT/US03/05346  
; PRIOR FILING DATE: 2003-02-20  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 766  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 66  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic  
US-10-923-476A-66

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 657 CAGCGCGCGCGCGG 675  
Db 1 CAGCGCGCGCGCAGUGGC 19

## RESULT 1970

US-11-043-752-3724/c  
; Sequence 3724, Application US/11043752  
; Publication No. US20060014165A1  
; GENERAL INFORMATION:  
; APPLICANT: Hakonarson, Hakon  
; APPLICANT: Gurney, Mark E.  
; APPLICANT: Halapi, Eva  
; TITLE OF INVENTION: METHODS OF DIAGNOSIS AND TREATMENT FOR  
; TITLE OF INVENTION: ASTHMA AND OTHER RESPIRATORY DISEASES BASED ON HAPLOTYPE  
; TITLE OF INVENTION: ASSOCIATION  
; FILE REFERENCE: 2345.2044-003  
; CURRENT APPLICATION NUMBER: US/11/043,752  
; CURRENT FILING DATE: 2005-01-26  
; PRIOR APPLICATION NUMBER: PCT/US04/022446  
; PRIOR FILING DATE: 2004-07-14  
; PRIOR APPLICATION NUMBER: 60/487,072  
; PRIOR FILING DATE: 2003-07-14  
; PRIOR APPLICATION NUMBER: 60/559,611  
; PRIOR FILING DATE: 2004-04-05  
; NUMBER OF SEQ ID NOS: 4326  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3724  
; LENGTH: 19  
; TYPE: DNA

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 657 CAGCGCGCGCGCGG 675  
Db 19 CAGCGCGCGCGCAGTGGC 1

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; ORGANISM: Homo sapiens
US-11-043-752-3724

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 281 TCCTCCACCACTCTCTCCT 299
Db 19 TCCTCTCTCTCTCTCTCT 1

RESULT 1971
US-11-054-047-136/c
; Sequence 136, Application US/11054047
; Publication No. US20050287128A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Gueriolini, Roberto
; APPLICANT: Robin, Howard
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of TGF-Beta and TGF-Beta
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siRNA)
; FILE REFERENCE: 400/248 (MHB02-1193-E)
; CURRENT APPLICATION NUMBER: US/11/054,047
; CURRENT FILING DATE: 2005-02-09
; NUMBER OF SEQ ID NOS: 855
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 136
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-11-054-047-136

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGGC 669
Db 19 CGCGCGCGCGCGCGGC 1

RESULT 1972
US-11-054-047-8
; Sequence 8, Application US/11054047
; Publication No. US20050287128A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Gueriolini, Roberto
; APPLICANT: Robin, Howard
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of TGF-Beta and TGF-Beta
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siRNA)
; FILE REFERENCE: 400/248 (MHB02-1193-E)
; CURRENT APPLICATION NUMBER: US/11/054,047
; CURRENT FILING DATE: 2005-02-09
; NUMBER OF SEQ ID NOS: 855
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 8
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-11-054-047-8

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 281 TCCTCCACCACTCTCTCCT 299
Db 19 TCCTCTCTCTCTCTCTCT 1

RESULT 1971
US-11-054-047-136/c
; Sequence 136, Application US/11054047
; Publication No. US20050287128A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Gueriolini, Roberto
; APPLICANT: Robin, Howard
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of TGF-Beta and TGF-Beta
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siRNA)
; FILE REFERENCE: 400/248 (MHB02-1193-E)
; CURRENT APPLICATION NUMBER: US/11/054,047
; CURRENT FILING DATE: 2005-02-09
; NUMBER OF SEQ ID NOS: 855
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 136
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-11-054-047-136

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGGC 669
Db 19 CGCGCGCGCGCGCGGC 1

RESULT 1972
US-11-054-047-8
; Sequence 8, Application US/11054047
; Publication No. US20050287128A1
; GENERAL INFORMATION:
; APPLICANT: Sirna Therapeutics, Inc.
; APPLICANT: Gueriolini, Roberto
; APPLICANT: Robin, Howard
; APPLICANT: McSwiggen, James
; TITLE OF INVENTION: RNA Interference Mediated Inhibition of TGF-Beta and TGF-Beta
; TITLE OF INVENTION: Receptor Gene Expression Using Short Interfering Nucleic Acid
; TITLE OF INVENTION: (siRNA)
; FILE REFERENCE: 400/248 (MHB02-1193-E)
; CURRENT APPLICATION NUMBER: US/11/054,047
; CURRENT FILING DATE: 2005-02-09
; NUMBER OF SEQ ID NOS: 855
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 8
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-11-054-047-8
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; ORGANISM: Homo sapiens
US-11-083-784-1000332/c
; Sequence 1000332, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1000332
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1000332

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2679 TCATGGATTGTTTCTCTG 2697
Db 19 TCATGGATTGTTCTTTTG 1

RESULT 1974
US-11-083-784-1029585/c
; Sequence 1029585, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1029585
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1029585
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Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 TCCTGCTCCTCCTCCTCC 286
Db 19 TCCTTCATCCTCCTCCTCC 1

RESULT 1975
US-11-083-784-1049684/c
; Sequence 1049684, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1049684
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1049684

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1727 TGTATCCTAAGACATGTC 1745
Db 19 TGTGTCCTAAGATATGTC 1

RESULT 1976
US-11-083-784-1053223/c
; Sequence 1053223, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1053223
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1053223

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 281 TCCTCCACACCTCCTCCT 299
Db 19 TCCTTCACACGCTCCTCCT 1

RESULT 1978
US-11-083-784-1107813/c
; Sequence 1107813, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1107813
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1107813
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; SOFTWARE: Proprietary
; SEQ ID NO 1107813
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1107813

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2672 TCTTCCTTCATGCGATTGTT 2690
Db      19 TCTTCCTTCATGATTCTT 1

RESULT 1979
US-11-083-784-1123421
; Sequence 1123421, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1123421
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1123421

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 1.4e+03;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1703 TGACAAGCGTTGCGTATGG 1721
Db      1 UGACAACUAUUGGCUAUGG 19

RESULT 1980
US-11-083-784-1123994
; Sequence 1123994, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
```

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; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1123994
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1123994

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.4e+03;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1855 AAGCAGAGCGTTCCTCAAGA 1873
Db      1 AAGCAGACGUUCCCAAGA 19

RESULT 1981
US-11-083-784-1147574/c
; Sequence 1147574, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1147574
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1147574

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2218 AAAGAGGCGAGTGTGTGAGC 2236
Db      19 AAAGAGGCGATTGTGATC 1

RESULT 1982
US-11-083-784-1154343
; Sequence 1154343, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
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; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1154343
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1154343

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.4e+03;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 2308 CCAACTATGCCATGCTGA 2326
Db 1 CCAACUAGACCAUGCUUA 19

RESULT 1983
US-11-083-784-1170512/c
; Sequence 1170512, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1170512
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1170512

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1327 TTGTCAAGAACTGCTCA 1345
Db 19 TTATCAAGAACTGCTTA 1

RESULT 1984
US-11-083-784-1172726/c
; Sequence 1172726, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
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; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1172726
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1172726

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 281 TCCTCCACCACCTCTCCT 299
Db 19 TCATCTCTCCACCTCTCCT 1

RESULT 1985
US-11-083-784-1173797/c
; Sequence 1173797, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1173797
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1173797

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2677 CTTTCATGGATTGTTCTTC 2695
Db 19 CTTTCATAGATTCTTTCTTC 1

RESULT 1986
US-11-083-784-1173838/c
; Sequence 1173838, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
```

```
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1173838
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1173838

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2679 TCATGGATTGTTCTTCTG 2697
    ||||| ||||| ||||| |||||
Db 19 TCATAGATTCTTCTTCTG 1

RESULT 1987
US-11-083-784-1225467/c
; Sequence 1225467, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1225467
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1225467

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1342 CTCACATCATCGACCTTG 1360
    ||||| ||||| ||||| |||||
Db 19 CTCACATCATTCGCTTG 1

RESULT 1988
US-11-083-784-1228257/c
; Sequence 1228257, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
```

```
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1228257
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1228257

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 283 CTCACACCTCTCTCTCC 301
    ||||| ||||| ||||| |||||
Db 19 CTCACACCTCTCTCTTC 1

RESULT 1989
US-11-083-784-1236220
; Sequence 1236220, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1236220
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1236220

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2363 AAAGACAGACAGACAGAA 2381
    ||||| ||||| ||||| |||||
Db 1 ACAGAAAGACAGACAGAA 19

RESULT 1990
US-11-083-784-1245194/c
; Sequence 1245194, Application US/11083784
; Publication No. US20050245475A1
```



GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; PRIOR FILING DATE: 2005-03-18  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1245194  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-1245194

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2677 CTTGATGGATTCTTCTTC 2695  
DB 19 CTTGATGGATTCTTCTTC 1

## RESULT 1991

US-11-083-784-1268922  
; Sequence 1268922, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; PRIOR FILING DATE: 2005-03-18  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1268922  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-1268922

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 68.4%; Pred. No. 1.4e+03;  
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 823 GAACCTGCTGCTGGATGA 841  
DB 1 GGACCCUGCUCUGGAUGA 19

## RESULT 1992

US-11-083-784-1276053/c  
; Sequence 1276053, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; PRIOR FILING DATE: 2005-03-18  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1276053  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-1276053

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 TCCTGCTCTCTCTCTCTCC 286  
DB 19 TCCTGCTCTCTCTCTCTCC 1

## RESULT 1993

US-11-083-784-129299/c  
; Sequence 129299, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; PRIOR FILING DATE: 2005-03-18  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 129299  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-129299

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 TCCTGCTCTCTCTCTCTCC 286  
DB 19 TCCTGCTCTCTCTCTCTCC 1

RESULT 1994  
US-11-083-784-1311791/c  
; Sequence 1311791, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; PRIOR FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1311791  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-1311791

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1848 TATGGCAACGACAGAGCTT 1866  
Db 19 TATGGCACAGCAGAGCTT 1

RESULT 1995  
US-11-083-784-1317137/c  
; Sequence 1317137, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; PRIOR FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1317137  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-1317137

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 281 TCCTCCACCACCTCTCTCT 299  
Db 19 TCTTCTCTCCACCTCTCTCT 1

RESULT 1996  
US-11-083-784-1357388/c  
; Sequence 1357388, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1357388  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-1357388

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 867 AGAGGCACTGGACATCTTC 885  
Db 19 AAAGGCACTGGTCATCTTC 1

RESULT 1997  
US-11-083-784-1369943/c  
; Sequence 1369943, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1369943  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-1369943

Query Match 0.6%; Score 15.8; DB 1; Length 19;

```
Best Local Similarity 89.5%; Pred. No. 1.4e+03; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 278 TCCTCTCTCCACCACTCTCT 296
DB 19 TACTCTCTGCACCACTCTCT 1

RESULT 1998
US-11-083-784-1373164/c
; Sequence 1373164, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1373164
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1373164

Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 TCCTGCTCTCTCTCTCTCTCC 286
DB 19 TCCTTCTCTCTCTCTCTCTCC 1

RESULT 1999
US-11-083-784-1397330
; Sequence 1397330, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1397330
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1397330

Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 278 TCCTGCTCTCTCTCTCTCTCC 286
DB 19 TCCTTCTCTCTCTCTCTCTCC 1

RESULT 2000
US-11-083-784-1405765
; Sequence 1405765, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1405765
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1405765

Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.4e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2278 ACACAGAGACCTGCCAAGA 2296
DB 1 ACACUGAGAUCCGCCAAGA 19

RESULT 2001
US-11-083-784-1419393
; Sequence 1419393, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1419393
```

```
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1419393

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.4e+03;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1858 CAGAAGCTTCCCAAGAAC 1876
Db 1 CAGAAGCUUCCAAUAAC 19

RESULT 2002
US-11-083-784-1423654/c
; Sequence 1423654, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1423654
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1423654

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1680 TTCTGTGGTGGCTGTGGTC 1698
Db 19 TGCTTGTGGCTGTGGTC 1

RESULT 2003
US-11-083-784-1430591/c
; Sequence 1430591, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1430591
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1430591

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1096 TCTCTCTCTTCATCTTGG 1114
Db 19 TCTCACTTCATCATCTTGG 1

RESULT 2004
US-11-083-784-1447986
; Sequence 1447986, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1447986
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1447986

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.4e+03;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2375 ACAGAAAGCCAGAGGCTTA 2393
Db 1 ACAGAAAUCCAGAGACUUA 19

RESULT 2005
US-11-083-784-1449588/c
; Sequence 1449588, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2002-11-14
```

```
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1449588
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1449588

Query Match
Best Local Similarity 0.6%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2364 AAGACAGACAGACAGAAAG 2382
DB 19 AATACAGACAGACAGAGG 1

RESULT 2006
US-11-083-784-1477154/c
; Sequence 1477154, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1477154
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1477154

Query Match
Best Local Similarity 0.6%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 774 TCTCTTTGAGGAGAGCTC 792
DB 19 TCTCTTTGATGAAGTGTC 1

RESULT 2007
US-11-083-784-1492590
; Sequence 1492590, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
```

```
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1492590
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1492590

Query Match
Best Local Similarity 0.6%; Score 15.8; DB 1; Length 19;
Matches 10; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

QY 1421 GAGATGCTGCTGGTTTCCT 1439
DB 1 GAGAUGUGCUGAAUUUCCU 19

RESULT 2008
US-11-083-784-1512317/c
; Sequence 1512317, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1512317
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1512317

Query Match
Best Local Similarity 0.6%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 727 TACTACCGCAGCGCAAGC 745
DB 19 TACTACCGCAGCGGACGC 1

RESULT 2009
US-11-083-784-1516022
; Sequence 1516022, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
```

```
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1516022
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1516022

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 2361 AGAAGACAGACAGACAGACA 2379
    ||| ||||| ||||| |||||
Db 1 AGACAGACAGCGCAGACAGA 19
```

```
RESULT 2010
US-11-083-784-152077/c
; Sequence 152077, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 152077
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-152077
```

```
Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1120 ATTACCACCTTCGCTGG 1138
    ||| ||||| ||||| |||||
Db 19 ATACACCCCTTCGCTGG 1
```

```
RESULT 2011
US-11-083-784-1526505/c
; Sequence 1526505, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
```

```
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1526505
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1526505
```

```
Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 2601 CTACTGGTGGTCTGCTTC 2619
    ||| ||||| ||||| |||||
Db 19 CTACTGGTGGTCTGAGTTC 1
```

```
RESULT 2012
US-11-083-784-1539097
; Sequence 1539097, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1539097
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1539097
```

```
Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 1.4e+03;
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1722 GGACATGTATCTTAAGACA 1740
    ||| ||||| ||||| |||||
Db 1 GGACAGUAGUACCCUGAGACA 19
```

```
RESULT 2013
US-11-083-784-1541140/c
; Sequence 1541140, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
```

; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; PRIOR FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1541140  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-1541140

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 271 TGCCTCTCTCTCTCCACC 289  
DB 19 TTCCCTCTCTCTCTCTCC 1

## RESULT 2014

US-11-083-784-1561087  
; Sequence 1561087, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1561087  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-1561087

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 63.2%; Pred. No. 1.4e+03;  
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1074 GCCCAGGGTGTAGCTTT 1092  
DB 1 GGACAGGGUGGUACUUU 19

## RESULT 2015

US-11-083-784-1570627/c  
; Sequence 1570627, Application US/11083784

; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1570627  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-1570627

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 271 TGCCTCTCTCTCTCCACC 289  
DB 19 TTCCCTCTCTCTCTCTCC 1

## RESULT 2016

US-11-083-784-184602  
; Sequence 184602, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 184602  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-184602

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 63.2%; Pred. No. 1.4e+03;  
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 105 CCTGACCCCTGCTTCAC 123  
DB 1 CCUGAACCCUGCUUCCAC 19

```
RESULT 2017
US-11-083-784-217777
; Sequence 217777, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 217777
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-217777

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 1.4e+03;
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY      1143 CCAGGAGGCTTCAACATT 1161
      ||| |||||: |||||:
Db      1 CCAAGAGGCCUGCAACAU 19

RESULT 2018
US-11-083-784-22379
; Sequence 22379, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 22379
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-22379

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.4e+03;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY      1566 GGCCCTGGGTGCTCATC 1584
      || |||||: |||||:

RESULT 2019
US-11-083-784-228349/c
; Sequence 228349, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 228349
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-228349

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      268 TCCTGCCTCCTCCTCCTCC 286
      || || |||||: |||||:
Db      19 TTCTTCCTCCTCCTCCTCC 1

RESULT 2020
US-11-083-784-258220
; Sequence 258220, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 258220
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-258220

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.4e+03;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
```





```
; ORGANISM: Homo sapiens
US-11-083-784-265799

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 1.4e+03;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1586 TTGCCACCATGATCTATTATTA 1604
      : |||||::||::||::||
Db 1 UGCCACCAUGAUCUACUA 19

RESULT 2025
US-11-083-784-265804
; Sequence 265804, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265804
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-265804

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.4e+03;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1477 AAGCTCACACGCCACTTTG 1495
      ||||:|||||::|
Db 1 AAGCUGACCGCCACCUUG 19

RESULT 2026
US-11-083-784-265809
; Sequence 265809, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary

; ORGANISM: Homo sapiens
US-11-083-784-265799

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 1.4e+03;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1586 TTGCCACCATGATCTATTATTA 1604
      : |||||::||::||::||
Db 1 UGCCACCAUGAUCUACUA 19

RESULT 2025
US-11-083-784-265804
; Sequence 265804, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265804
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-265804

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.4e+03;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1477 AAGCTCACACGCCACTTTG 1495
      ||||:|||||::|
Db 1 AAGCUGACCGCCACCUUG 19

RESULT 2026
US-11-083-784-265809
; Sequence 265809, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary

; ORGANISM: Homo sapiens
US-11-083-784-265799

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 1.4e+03;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1586 TTGCCACCATGATCTATTATTA 1604
      : |||||::||::||::||
Db 1 UGCCACCAUGAUCUACUA 19

RESULT 2025
US-11-083-784-265804
; Sequence 265804, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265809
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-265809

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.4e+03;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1394 TGAGTGGCCTGTCTATCCAA 1412
      : |||||::||::||::||
Db 1 UGAGCGGCGGCUCCUCCAA 19

RESULT 2027
US-11-083-784-265821
; Sequence 265821, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265821
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-265821

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 1.4e+03;
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1331 TCAAGAACCTGCTCAACAT 1349
      : |||||::||::||::||
Db 1 UCAAGAACUCCGCUCAACAU 19

RESULT 2028
US-11-083-784-265848
; Sequence 265848, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
```

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; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265848
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-265848

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 1.4e+03;
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 710 TTGCCTATGTGCTCAACTA 728
   : |||:|:|:|:|:|:|:|:|
Db 1 UCGCCUAGUGGCUCAAUUA 19

RESULT 2029
US-11-083-784-265880
; Sequence 265880, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR FILING DATE: 2003-09-10
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265880
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-265880

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 1.4e+03;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1394 TGAGTGGCCTGTCTATCCAA 1412
   : |||:|:|:|:|:|:|:|:|
Db 1 UCAGUGGGGUGUCAUCCAA 19

RESULT 2030
US-11-083-784-265934
; Sequence 265934, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14

; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265934
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-265934

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 1.4e+03;
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 710 TTGCCTATGTGCTCAACTA 728
   : |||:|:|:|:|:|:|:|:|
Db 1 UCGCCUAGUGGCUCAAUUA 19

RESULT 2031
US-11-083-784-265950
; Sequence 265950, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR FILING DATE: 2003-09-10
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265950
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-265950

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 1.4e+03;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1394 TGAGTGGCCTGTCTATCCAA 1412
   : |||:|:~|:|:|:|:|:|
Db 1 UCAGUGGGGUGUCAUCCAA 19

RESULT 2032
US-11-083-784-265979
; Sequence 265979, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
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; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265979
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-265979

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 1.4e+03;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1833 GTACTACTCCTGGCTATG 1851
Db 1 GUACUACUCCUGGCAUG 19

RESULT 2033
US-11-083-784-265987
; Sequence 265987, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265987
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-265987

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 1.4e+03;
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1586 TTGCCACCATGATCTAFTA 1604
Db 1 UUGCUACCAUGAUCUACUA 19

RESULT 2034
US-11-083-784-265991
; Sequence 265991, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
```

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; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265991
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-265991

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 1.4e+03;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1800 GCCTGTGCTGTGCATCGTC 1818
Db 1 GCCAGUGCCUGUCAUUGUC 19

RESULT 2035
US-11-083-784-266003
; Sequence 266003, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266003
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266003

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.4e+03;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 866 AAGAGGCACTGGACATCTT 884
Db 1 AGGAGGCGCUGGACAUUU 19

RESULT 2036
US-11-083-784-266020
; Sequence 266020, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
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US-11-083-784-266078  
; Sequence 266078, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:

US-11-083-784-266138

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; Sequence 266138, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266138
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
US-11-083-784-266138

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 1.4e+03;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 713 CCTATGCTGCTCACTACTA 731
DB 1 CGUACGUGCUCAACUACUA 19

RESULT 2041
US-11-083-784-266143
; Sequence 266143, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266143
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
US-11-083-784-266143

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 1.4e+03;
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1817 TCAATAACTTTGGTATGTA 1835
DB 1 UCAACAACUUGGCAUGUA 19

RESULT 2042
US-11-083-784-266145
; Sequence 266145, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266145
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
US-11-083-784-266145

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.4e+03;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 823 GAACCCCTGCTGCTGGATGA 841
DB 1 GAGGCCUGCGUGGGAUGA 19

RESULT 2043
US-11-083-784-266148
; Sequence 266148, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266148
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
US-11-083-784-266148

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 1.4e+03;
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1816 GTCAATAACTTTGGTATGT 1834
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Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.4e+03;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 2529 TTGACAGACATATGCA 2547
Db      : ||||| |.:.|
        1 UCGACAGAUUAUUGCA 19

RESULT 2048
US-11-083-784-266233
; Sequence 266233, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266233
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266233

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.4e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2012 GAGCAGACTCCAGCAGAA 2030
Db      : ||||| |.:.|
        1 GGCACACUCUAAGCAGAA 19

RESULT 2049
US-11-083-784-266234
; Sequence 266234, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266234
; LENGTH: 19
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; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266234

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.4e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2007 GAAACGAGCAGACTCCAAG 2025
Db      : ||||| |.:.|
        1 GAAACGGCAGACUCUAAG 19

RESULT 2050
US-11-083-784-266243
; Sequence 266243, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266243
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266243

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 1.4e+03;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 710 TTGCTATGTGCTCAACTA 728
Db      : ||||| |.:.|
        1 UCGCCUACGUGCUCAACUA 19

RESULT 2051
US-11-083-784-266245
; Sequence 266245, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
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<pre>; SOFTWARE: Proprietary ; SEQ ID NO 266245 ; LENGTH: 19 ; TYPE: RNA ; ORGANISM: Homo sapiens US-11-083-784-266245</pre>	<pre>Query Match      0.6%; Score 15.8; DB 1; Length 19; Best Local Similarity 68.4%; Pred. No. 1.4e+03; Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;</pre>
QY    1903 CAGCTTGGATGCACCCATTGTT 1921       :      : Db     1 CAGCUGAAGUCACCACAUGU 19	
RESULT 2052	
US-11-083-784-266246	
Sequence 266246, Application US/11083784	
Publication No. US20050245475A1	
GENERAL INFORMATION:	
APPLICANT: Dharmacon, Inc.	
APPLICANT: Khvorova, Anastasia	
APPLICANT: Reynolds, Angela	
APPLICANT: Leake, Devin	
APPLICANT: Marshall, William	
APPLICANT: Scaringe, Stephen	
TITLE OF INVENTION: Functional and Hyperfunctional siRNA	
FILE REFERENCE: 13499US	
CURRENT APPLICATION NUMBER: US/11/083,784	
PRIOR FILING DATE: 2003-03-18	
PRIOR PUBLICATION NUMBER: US/10/714,333	
PRIOR FILING DATE: 2003-11-14	
PRIOR APPLICATION NUMBER: 60/502,050	
PRIOR FILING DATE: 2003-09-10	
PRIOR APPLICATION NUMBER: 60/426,137	
PRIOR FILING DATE: 2002-11-14	
NUMBER OF SEQ ID NOS: 1591911	
SOFTWARE: Proprietary	
SEQ ID NO 266246	
LENGTH: 19	
TYPE: RNA	
ORGANISM: Homo sapiens	
US-11-083-784-266246	
<pre>Query Match      0.6%; Score 15.8; DB 1; Length 19; Best Local Similarity 68.4%; Pred. No. 1.4e+03; Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;</pre>	
QY    2527 CATTCGAAGACATATATGTG 2545       :      : Db     1 CAUCGAAGAUAUAUAUG 19	
RESULT 2053	
US-11-083-784-266272	
Sequence 266272, Application US/11083784	
Publication No. US20050245475A1	
GENERAL INFORMATION:	
APPLICANT: Dharmacon, Inc.	
APPLICANT: Khvorova, Anastasia	
APPLICANT: Reynolds, Angela	
APPLICANT: Leake, Devin	
APPLICANT: Marshall, William	
APPLICANT: Scaringe, Stephen	
TITLE OF INVENTION: Functional and Hyperfunctional siRNA	
FILE REFERENCE: 13499US	
CURRENT APPLICATION NUMBER: US/11/083,784	
PRIOR FILING DATE: 2003-03-18	
PRIOR APPLICATION NUMBER: US/10/714,333	
PRIOR FILING DATE: 2003-11-14	
PRIOR APPLICATION NUMBER: 60/502,050	
PRIOR FILING DATE: 2003-09-10	
PRIOR APPLICATION NUMBER: 60/426,137	
PRIOR FILING DATE: 2002-11-14	
NUMBER OF SEQ ID NOS: 1591911	
SOFTWARE: Proprietary	
SEQ ID NO 266246	
LENGTH: 19	
TYPE: RNA	
ORGANISM: Homo sapiens	
US-11-083-784-266246	
<pre>Query Match      0.6%; Score 15.8; DB 1; Length 19; Best Local Similarity 68.4%; Pred. No. 1.4e+03; Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;</pre>	
QY    2527 CATTCGAAGACATATATGTG 2545       :      : Db     1 CAUCGAAGAUAUAUAUG 19	
RESULT 2055	
US-11-083-784-266290	
Sequence 266290, Application US/11083784	
Publication No. US20050245475A1	
GENERAL INFORMATION:	
APPLICANT: Dharmacon, Inc.	
APPLICANT: Khvorova, Anastasia	
APPLICANT: Reynolds, Angela	
APPLICANT: Leake, Devin	
APPLICANT: Marshall, William	
APPLICANT: Scaringe, Stephen	
TITLE OF INVENTION: Functional and Hyperfunctional siRNA	
FILE REFERENCE: 13499US	
CURRENT APPLICATION NUMBER: US/11/083,784	
PRIOR FILING DATE: 2003-03-18	
PRIOR APPLICATION NUMBER: US/10/714,333	
PRIOR FILING DATE: 2003-11-14	
PRIOR APPLICATION NUMBER: 60/502,050	
PRIOR FILING DATE: 2003-09-10	
PRIOR APPLICATION NUMBER: 60/426,137	
PRIOR FILING DATE: 2002-11-14	
NUMBER OF SEQ ID NOS: 1591911	
SOFTWARE: Proprietary	
SEQ ID NO 266288	
LENGTH: 19	
TYPE: RNA	
ORGANISM: Homo sapiens	
US-11-083-784-266288	
<pre>Query Match      0.6%; Score 15.8; DB 1; Length 19; Best Local Similarity 68.4%; Pred. No. 1.4e+03; Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;</pre>	
QY    2175 GCTCATGCTCGGGACTAT 2193       :      : Db     1 GCUCGACGACUGGGGUCAU 19	
RESULT 2055	
US-11-083-784-266290	
Sequence 266290, Application US/11083784	
Publication No. US20050245475A1	
GENERAL INFORMATION:	
APPLICANT: Dharmacon, Inc.	
APPLICANT: Khvorova, Anastasia	
APPLICANT: Reynolds, Angela	
APPLICANT: Leake, Devin	
APPLICANT: Marshall, William	
APPLICANT: Scaringe, Stephen	
TITLE OF INVENTION: Functional and Hyperfunctional siRNA	
FILE REFERENCE: 13499US	
CURRENT APPLICATION NUMBER: US/11/083,784	
PRIOR FILING DATE: 2003-03-18	
PRIOR APPLICATION NUMBER: US/10/714,333	
PRIOR FILING DATE: 2003-11-14	
PRIOR APPLICATION NUMBER: 60/502,050	
PRIOR FILING DATE: 2003-09-10	
PRIOR APPLICATION NUMBER: 60/426,137	
PRIOR FILING DATE: 2002-11-14	
NUMBER OF SEQ ID NOS: 1591911	
SOFTWARE: Proprietary	
SEQ ID NO 266288	
LENGTH: 19	
TYPE: RNA	
ORGANISM: Homo sapiens	
US-11-083-784-266288	
<pre>Query Match      0.6%; Score 15.8; DB 1; Length 19; Best Local Similarity 68.4%; Pred. No. 1.4e+03; Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;</pre>	
QY    2175 GCTCATGCTCGGGACTAT 2193       :      : Db     1 GCUCGACGACUGGGGUCAU 19	
RESULT 2055	
US-11-083-784-266290	
Sequence 266290, Application US/11083784	
Publication No. US20050245475A1	
GENERAL INFORMATION:	
APPLICANT: Dharmacon, Inc.	
APPLICANT: Khvorova, Anastasia	
APPLICANT: Reynolds, Angela	
APPLICANT: Leake, Devin	
APPLICANT: Marshall, William	
APPLICANT: Scaringe, Stephen	
TITLE OF INVENTION: Functional and Hyperfunctional siRNA	
FILE REFERENCE: 13499US	
CURRENT APPLICATION NUMBER: US/11/083,784	
PRIOR FILING DATE: 2003-03-18	
PRIOR APPLICATION NUMBER: US/10/714,333	

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; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266290
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266290

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2361 AGAAGACACACAGACAGACA 2379
Db 1 AGAGACACAGGCAGACAGA 19

RESULT 2056
US-11-083-784-266298
; Sequence 266298, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266298
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266298

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.4e+03;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1951 GACAGCACCTACAGTGACA 1969
Db 1 GACAGCACCCUGCAGUGAUA 19

RESULT 2057
US-11-083-784-266325
; Sequence 266325, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
```

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; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266325
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266325

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 1.4e+03;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 710 TTGCCTATGTGCTCAACTA 728
Db 1 UGCGCUACGUGCUCAACUA 19

RESULT 2058
US-11-083-784-266327
; Sequence 266327, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266327
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-266327

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.4e+03;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1903 CAGCTTGAGTCACCCATTT 1921
Db 1 CAGCUGGAGUCACCCAUGU 19

RESULT 2059
US-11-083-784-266342
; Sequence 266342, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
```

; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 266342  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-266342

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 52.6%; Pred. No. 1.4e+03;  
Matches 10; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

QY 674 GCTGTGAGTCTCTTTGA 692  
|||:||||:||||:|  
Db 1 GCUGCGAGUUCUUCUGA 19

## RESULT 2060

US-11-083-784-266367  
; Sequence 266367, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmakon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 266367  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-266367

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 68.4%; Pred. No. 1.4e+03;  
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1318 ACGTTGGAGCTTTGTCAAGA 1336  
|||:||||:||||:|  
Db 1 ACGCUGGAGUUCUGCAAGA 19

## RESULT 2061

US-11-083-784-270184/c  
; Sequence 270184, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmakon, Inc.  
; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 270184  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-270184

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1556 TCATCTTCTGCGCCTGGG 1574  
|||||:|||||:|||||  
Db 19 TCATCTTCTGCTGCTCTGGG 1

## RESULT 2062

US-11-083-784-271359  
; Sequence 271359, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmakon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 271359  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-271359

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 52.6%; Pred. No. 1.4e+03;  
Matches 10; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

QY 1343 TCACATCATGACTTTGT 1361  
:||||:||||:|  
Db 1 UGAACAUCUUGACUUUGU 19

## RESULT 2063

US-11-083-784-305036/c  
; Sequence 305036, Application US/11083784  
; Publication No. US20050245475A1

```
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 305036
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-305036
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 860 ATGCTGAAGAGGCACTGGA 878
Db 19 AAGCTGAAGAGGCACTGGA 1
```

## RESULT 2064

```
US-11-083-784-305136/c
; Sequence 305136, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 305136
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-305136
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 860 ATGCTGAAGAGGCACTGGA 878
Db 19 AAGCTGAAGAGGCACTGGA 1
```

## RESULT 2065

```
US-11-083-784-305233/c
; Sequence 305233, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 305233
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-305233
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 860 ATGCTGAAGAGGCACTGGA 878
Db 19 AAGCTGAAGAGGCACTGGA 1
```

## RESULT 2066

```
US-11-083-784-305335/c
; Sequence 305335, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 305335
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-305335
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 860 ATGCTGAAGAGGCACTGGA 878
Db 19 AAGCTGAAGAGGCACTGGA 1
```

RESULT 2067  
US-11-083-784-351811/c  
; Sequence 351811, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; PRIOR FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 351811  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-351811

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 TCCTGCTCTCTCTCTCTCC 286  
DB 19 TTCTTCTCTCTCTCTCTCC 1

RESULT 2068  
US-11-083-784-351910/c  
; Sequence 351910, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 351910  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-351910

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 TCCTGCTCTCTCTCTCTCC 286  
DB 19 TTCTTCTCTCTCTCTCTCC 1

RESULT 2069  
US-11-083-784-351969/c  
; Sequence 351969, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 351969  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-351969

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 TCCTGCTCTCTCTCTCTCC 286  
DB 19 TTCTTCTCTCTCTCTCTCC 1

RESULT 2070  
US-11-083-784-351981/c  
; Sequence 351981, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 351981  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-351981

Query Match 0.6%; Score 15.8; DB 1; Length 19;

```
Best Local Similarity 89.5%; Pred. No. 1.4e+03; Indels 2; Gaps 0;
Matches 17; Conservative 0; Mismatches 2; Indels 2; Gaps 0;

QY 271 TGCCTCTCTCTCTCTCACC 289
Db 19 TTCTCTCTCTCTCTCTCTCTCC 1

RESULT 2071
US-11-083-784-374845/c
; Sequence 374845, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 374845
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-374845

Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 2; Gaps 0;

QY 2602 TACTGGTGTCTGTCTCA 2620
Db 19 TACTGGTGTATTCTTCA 1

RESULT 2072
US-11-083-784-386298
; Sequence 386298, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 386298
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-386298

Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 2; Gaps 0;

QY 2361 AGAAAGACAGACAGACAGA 2379
Db 1 AGAAAGAGAGAGACAGA 19

RESULT 2073
US-11-083-784-395666
; Sequence 395666, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 395666
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-395666

Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.4e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 2; Gaps 0;

QY 2012 GAGCAGACTCCAAAGCAGAA 2030
Db 1 GAGCAGCCUCAAAGCAGAA 19

RESULT 2074
US-11-083-784-396040/c
; Sequence 396040, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 396040
```

```
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-396040

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 268 TCCTGCTCCTCCTCCTCC 286
Db 19 TTCCTCCTCCTCCTCCTCC 1

RESULT 2075
US-11-083-784-396071/c
; Sequence 396071, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR FILING DATE: 2003-09-10
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 396071
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-396071

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 271 TGCTCTCCTCCTCCTCCACC 289
Db 19 TTCCTCCTCCTCCTCCTCC 1

RESULT 2076
US-11-083-784-412397
; Sequence 412397, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR FILING DATE: 2003-09-10
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 412397
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-412397

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 271 TGCTCTCCTCCTCCTCCACC 289
Db 19 TTCCTCCTCCTCCTCCTCC 1

RESULT 2077
US-11-083-784-412402
; Sequence 412402, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR FILING DATE: 2003-09-10
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 412402
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-412402

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2363 AAAGACAGACAGACAGAAA 2381
Db 1 AAAGACAGACAGACAGACA 19

RESULT 2078
US-11-083-784-412596
; Sequence 412596, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 412596
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-412596

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2363 AAAGACAGACAGACAGAAA 2381
Db 1 AAAGACAGACAGACAGACA 19
```

```
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 412596
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-412596

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2361 AGAAGACAGACAGACAGACA 2379
Db 1 AGACAGACCCGACAGACAGA 19

RESULT 2079
US-11-083-784-412601
; Sequence 412601, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 412601
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-412601

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2363 AAAGACAGACAGACAGAAA 2381
Db 1 AAAGACAGACCGACAGACA 19

RESULT 2080
US-11-083-784-4135/c
; Sequence 4135, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18

; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 4135
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-4135

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1328 TTGTCAAGAACTGTCTCAA 1346
Db 19 TTGTGAAGAACTGTCTCAA 1

RESULT 2082
US-11-083-784-417987/c
; Sequence 417987, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
```



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; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 417987
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-417987

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 271 TGCCTCCTCTCTCTCCACC 289
DB 19 TTCTTCTCTCTCTCTCTCC 1

RESULT 2083
US-11-083-784-425439/c
; Sequence 425439, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 425439
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-425439

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 TCCTGCCTCTCTCTCTCC 286
DB 19 TTCTTCTCTCTCTCTCTCC 1

RESULT 2084
US-11-083-784-432369/c
; Sequence 432369, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 432369
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-432369

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 269 TCCTGCCTCTCTCTCTCC 286
DB 19 TTCTTCTCTCTCTCTCTCC 1

RESULT 2085
US-11-083-784-44688
; Sequence 44688, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 44688
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-44688

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.4e+03;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1335 GAACCTGCTCAACATCATC 1353
DB 1 GAACCUUGGUCAGCAUCAUC 19

RESULT 2086
US-11-083-784-452847
; Sequence 452847, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.

```

```
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 452847
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-452847
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 52.6%; Pred. No. 1.4e+03;
Matches 10; Conservative 7; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 674 GCTGTCAGTCTCTCTTGA 692
||:||||:|:|
Db 1 GCUGUGAGUCCUGUGA 19
```

## RESULT 2087

```
US-11-083-784-456773
; Sequence 456773, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 456773
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-456773
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.4e+03;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1330 GTCAAGAACTGCTCAACA 1348
| |||||:|:|
Db 1 GGCAGAGAACUGCUCACAA 19
```

## RESULT 2088

```
US-11-083-784-458447/c
; Sequence 458447, Application US/11083784
```

```
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 458447
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-458447
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 268 TCCTGCCTCTCTCTCTCC 286
| ||||| |||||
Db 19 TTCTTCTCTCTCTCTCTCC 1
```

## RESULT 2089

```
US-11-083-784-458545/c
; Sequence 458545, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 458545
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-458545
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 268 TCCTGCCTCTCTCTCTCC 286
| ||||| |||||
Db 19 TTCTTCTCTCTCTCTCTCC 1
```

RESULT 2090  
US-11-083-784-46564  
; Sequence 46564, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 46564  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-46564

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 47.4%; Pred. No. 1.4e+03;  
Matches 9; Conservative 8; Mismatches 2; Indels 0; Gaps 0;

QY 3 GCGCTTCTCTGCTTTCTG 21  
||||| :|:|:|:|:|  
Db 1 GCGCUACUCUCUUCUG 19

RESULT 2091  
US-11-083-784-496456  
; Sequence 496456, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 496456  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-496456

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2362 GAAAGACACAGACAGAGA 2380  
||||||| ||||| |||||

Db 1 GAAAGACAAACAGAAAGA 19

RESULT 2092  
US-11-083-784-496508  
; Sequence 496508, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 496508  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-496508

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2361 AGAAAGACAGACAGACAGA 2379  
||||||| ||||| |||||  
Db 1 AGAAAGACAAACAGAAAGA 19

RESULT 2093  
US-11-083-784-496510  
; Sequence 496510, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 496510  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-496510

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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QY      2360 GAGAAAGACAGACAGACAG 2378
Db      1 GAGAAAGACAAACAGAAAG 19

RESULT 2094
US-11-083-784-511184/c
; Sequence 511184, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 511184
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-511184

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      281 TCCTCCACCACTCTCTCT 299
Db      19 TCATCCACCACTCTCTCT 1

RESULT 2095
US-11-083-784-511303/c
; Sequence 511303, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 511303
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-511303

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      268 TCCTGCCTCTCTCTCTCTCC 286
Db      19 TCCTTCCTCTCTCTCTCTCC 1

RESULT 2096
US-11-083-784-53184/c
; Sequence 53184, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 53184
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-53184

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      268 TCCTGCCTCTCTCTCTCTCC 286
Db      19 TCCTTCCTCTCTCTCTCTCC 1

RESULT 2097
US-11-083-784-53283/c
; Sequence 53283, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 53283
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-53283
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; ORGANISM: Homo sapiens
US-11-083-784-53283

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 TCCTGCTCTCTCTCTCTCC 286
Db 19 TCCTTCTCTCTCTCTCTCC 1

RESULT 2098
US-11-083-784-54059
; Sequence 54059, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 54059
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-54059

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.4e+03;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1857 GCAGAGCTTCCCAAGAAA 1875
Db 1 GCAGAACCUUCCCAAGAGA 19

RESULT 2099
US-11-083-784-561064/c
; Sequence 561064, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary

; SEQ ID NO 561064
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-561064

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1423 GATGTGCTGGTTCTCTGC 1441
Db 19 GATGAGCTGGTCTCTCTGC 1

RESULT 2100
US-11-083-784-567450
; Sequence 567450, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 567450
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-567450

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 1.4e+03;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1701 CATGACAACTGCTGTAT 1719
Db 1 CAUGACCACUCUUGGCUAU 19

RESULT 2101
US-11-083-784-574829/c
; Sequence 574829, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
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; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 574829
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-574829

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 505 GAGAGATCATCATCAG 523
Db 19 GAGAGATCATCCTCATCG 1

RESULT 2102
US-11-083-784-590449
; Sequence 590449, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 590449
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-590449

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 1.4e+03;
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1344 CAACATCATCGACTTTGTG 1362
Db 1 CAACAUCACGAGUUGUG 19

RESULT 2103
US-11-083-784-590522
; Sequence 590522, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14

; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 590522
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-590522

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2273 TTTAAACACAGAGACTGC 2291
Db 19 TTTCACAAACAGAGACTGC 1

RESULT 2105
US-11-083-784-644391
; Sequence 644391, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
```

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; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 644391
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-644391

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.4e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 476 AGGAGAGATGCCAAGGG 494
DB 1 AGGAGAAGAGGCCCAAGUG 19

RESULT 2106
US-11-083-784-647143
; Sequence 647143, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 647143
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-647143

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 1.4e+03;
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1652 ACACCGACTTCAAGAACAT 1670
DB 1 AGACCUACUUCAGAACAU 19

RESULT 2107
US-11-083-784-649664/c
; Sequence 649664, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 649664
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-649664

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.4e+03;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1394 TGAGTGGCCTGTCAATCCAA 1412
DB 1 UGAGUUGCCUGCCAUCCAA 19

RESULT 2109
US-11-083-784-65992/c
; Sequence 65992, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
```





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; Sequence 732988, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 732988
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-732988

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.4e+03;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 981 AGGAGGCTTGCCCTGGT 999
DB 1 AGGAAGCUCUGGCCCUUGU 19

RESULT 2114
US-11-083-784-736252
; Sequence 736252, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 736252
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-736252

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 1.4e+03;
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1349 TCATCGACTTTGGCCAT 1367
DB 1 UCAACGACUUGUGGACAU 19

RESULT 2115
US-11-083-784-753557/c
; Sequence 753557, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 753557
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-753557

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1100 TCTTCTTCATCTTGGTCTC 1118
DB 19 TCTTCTTCAGCTTGGGCTC 1

RESULT 2116
US-11-083-784-753652/c
; Sequence 753652, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 753652
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-753652

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1100 TCTTCTTCATCTTGGTCTC 1118
DB 19 TCTTCTTCAGCTTGGGCTC 1
```

```
Db      19  TCTTCTTGAGCTGGGCTC 1
|||||
Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      2051  TGTCGATGAGGAGGAGC 2069
|||||
Db      19  TGTCGTGATGAGGTGGGAGC 1
|||||

RESULT 2117
US-11-083-784-757354/c
; Sequence 757354, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 757354
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-757354

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      2051  TGTCGATGAGGAGGAGC 2069
|||||
Db      19  TGTCGTGATGAGGTGGGAGC 1
|||||

RESULT 2118
US-11-083-784-757458/c
; Sequence 757458, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 757458
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-757458

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      2051  TGTCGATGAGGAGGAGC 2069
|||||
Db      19  TGTCGTGATGAGGTGGGAGC 1
|||||

RESULT 2119
US-11-083-784-757562/c
; Sequence 757562, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 757562
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-757562

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      2051  TGTCGATGAGGAGGAGC 2069
|||||
Db      19  TGTCGTGATGAGGTGGGAGC 1
|||||

RESULT 2120
US-11-083-784-813399/c
; Sequence 813399, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 813399
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-813399
```

```
Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1099 CTCTTCTTCATCTTGGTCT 1117
Db 19 CTCTTCTTCATCTGAGTCT 1

RESULT 2121
US-11-083-784-841312/c
; Sequence 841312, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 841312
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-841312

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 271 TGCTCTCTCTCTCTCCACC 289
Db 19 TTCTCTCTCTCTCTCTCTCC 1

RESULT 2122
US-11-083-784-853052/c
; Sequence 853052, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 853052
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-853052

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1410 CAAGCAGCTCGAGTGTG 1428
Db 1 CGAGCAGCTCGAGTGTG 19

RESULT 2123
US-11-083-784-881283
; Sequence 881283, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 881283
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-881283

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 1.4e+03;
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1410 CAAGCAGCTCGAGTGTG 1428
Db 1 CGAGCAGCTCGAGTGTG 19

RESULT 2124
US-11-083-784-892033/c
; Sequence 892033, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 892033
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-892033
```

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; SOFTWARE: Proprietary
; SEQ ID NO 892033
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-892033

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1096 TCCTCTCTTCTTCATCTGG 1114
Db 19 TTCTCTCTTCTTCTCTGG 1

RESULT 2125
US-11-083-784-907691
; Sequence 907691, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 907691
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-907691

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 1.4e+03;
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1817 TCAATAACTTTGTATGTA 1835
Db 1 UCAAGAACUUUGGAUGUA 19

RESULT 2126
US-11-083-784-907992/c
; Sequence 907992, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10

; SOFTWARE: Proprietary
; SEQ ID NO 907992
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-907992

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1102 TTCTTCATCTTGGTCTCCA 1120
Db 19 TTCTTCCTTCTTCTGCTCTCA 1

RESULT 2127
US-11-083-784-907994/c
; Sequence 907994, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 907994
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-907994

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1100 TCTTCTTCATCTTGGTCTC 1118
Db 19 TCTTCTTCTTCTTCTGCTCTC 1
```

```
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 914735
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-914735

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 TCCTGCCTCCTCCTCTCC 286
Db 19 TTTCTTCTCCTCCTCTCC 1

RESULT 2129
US-11-083-784-92699/c
; Sequence 92699, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 92699
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-92699

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 TCCTGCCTCCTCCTCTCC 286
Db 19 TTTCTTCTCCTCCTCTCC 1

RESULT 2130
US-11-083-784-92728/c
; Sequence 92728, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 92728
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-92728

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 271 TGCCTCCTCCTCCTCTCC 289
Db 19 TTCTCTCCTCCTCTCTCC 1

RESULT 2131
US-11-083-784-931272/c
; Sequence 931272, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 931272
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-931272

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2209 AGTGTCCAGAAAGGCA 2227
Db 19 AATGTCCAGAAAGAGTCA 1

RESULT 2132
US-11-083-784-975201/c
; Sequence 975201, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
```

```
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 975201
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-975201
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1766 TGTGTGCTGGCTGGTGT 1784
Db 19 TATGTACTGGCTGGTGT 1
```

```
RESULT 2133
US-11-083-784-99429
; Sequence 99429, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 99429
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-99429
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.4e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 2014 GCAGCTCCAGCAGATG 2032
Db 1 GCAGUCACCAAGCAGAAUG 19
```

```
RESULT 2134
US-11-101-244-1000332/c
; Sequence 1000332, Application US/1101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
```

```
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1000332
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1000332
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 2679 TCATGGATTGTTCTTCTG 2697
Db 19 TCATGGATTGTTCTTCTG 1
```

```
RESULT 2135
US-11-101-244-1029585/c
; Sequence 1029585, Application US/1101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1029585
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1029585
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

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QY 268 TCCTGCCTCTCTCTCTCC 286
Db 19 TCCTTCATCTCTCTCTCC 1
```

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RESULT 2136
US-11-101-244-1049684/c
; Sequence 1049684, Application US/1101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
```

; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1049684  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-1049684

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1727 TGTATCCTAAGACATGGTC 1745  
DB 19 TGTGTCTTAAGATATGGTC 1

RESULT 2137  
US-11-101-244-1053223/c  
; Sequence 1053223, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmakon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1053223  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-1053223

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2056 GATGAGGAGGGAGCTGGCC 2074  
DB 19 GATGAGGAGGGTGTCTGCC 1

RESULT 2138  
US-11-101-244-1085981/c  
; Sequence 1085981, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmakon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1085981  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-1085981

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 281 TCCTCCACCACCTCCTCCT 299  
DB 19 TCCTTCACGAGCTCCTCCT 1

RESULT 2139  
US-11-101-244-1107813/c  
; Sequence 1107813, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmakon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1107813  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-1107813

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2672 TCCTCCTTCATGGATGTT 2690  
DB 19 TCCTTCCTTCATGATATCTT 1

RESULT 2140  
US-11-101-244-1123421  
; Sequence 1123421, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmakon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William

```
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1123421
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1123421

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 1.4e+03;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1703 TGACACGCTTGCTATG 1721
      :||||| :|||:|
Db 1 UGACACUAUUGGCUAUG 19

RESULT 2141
US-11-101-244-1123994
; Sequence 1123994, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1123994
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1123994

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.4e+03;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1855 AAGCAGAGCTTCCCAAGA 1873
      :||||| :|||:|
Db 1 AAGCAGACGUUCCCAAGA 19

RESULT 2142
US-11-101-244-1147574/c
; Sequence 1147574, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1147574
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1147574

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2218 AAAGAAGCGATGTTGAGC 2236
      :||||| :|||:|
Db 19 AAAGAAGCGATGTTGATC 1

RESULT 2143
US-11-101-244-1154343
; Sequence 1154343, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1154343
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1154343

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.4e+03;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 2308 CCAACTATGCCCATGCTGA 2326
      :||||| :|||:|
Db 1 CCAACUAUGACCAUGCUUA 19

RESULT 2144
US-11-101-244-1170512/c
; Sequence 1170512, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
```



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; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1170512
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1170512

Query Match
Best Local Similarity 0.6%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1327 TTTGTCAGAACCTGCTCA 1345
Db 19 TTTATCAAGAACCTGCTTA 1

RESULT 2145
US-11-101-244-1172726/c
; Sequence 1172726, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1172726
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1172726

Query Match
Best Local Similarity 0.6%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 281 TCCTCCACCACCTCTCTCT 239
Db 19 TCATCTCCACCTCTCTCT 1

RESULT 2146
US-11-101-244-1173797/c
; Sequence 1173797, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1173797
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1173797

Query Match
Best Local Similarity 0.6%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2679 TCATGGATTGTTCTTCG 2697
Db 19 TCATAGATTCTTCTCTG 1

RESULT 2148
US-11-101-244-1225467/c
; Sequence 1225467, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1173838
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1173838

Query Match
Best Local Similarity 0.6%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2679 TCATGGATTGTTCTTCG 2697
Db 19 TCATAGATTCTTCTCTG 1

RESULT 2149
US-11-101-244-1225467/c
; Sequence 1225467, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1173838
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1173838

Query Match
Best Local Similarity 0.6%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2679 TCATGGATTGTTCTTCG 2697
Db 19 TCATAGATTCTTCTCTG 1
```

```
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1235467
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1225467

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1342 CTCACATCATCGACTTTG 1360
Db 19 CTCACATCATTCGCTTTG 1

RESULT 2149
US-11-101-244-1228257/c
; Sequence 1228257, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1228257
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1228257

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 283 CTCACACCATCTCTCTCC 301
Db 19 CTCACACCATCTCTCTTC 1

RESULT 2150
US-11-101-244-1236220
; Sequence 1236220, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07

; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1236220
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1236220

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2363 AAAGACAGACAGACAGAAA 2381
Db 1 ACAGAAAGACAGACAGAAA 19

RESULT 2151
US-11-101-244-1245194/c
; Sequence 1245194, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1245194
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1245194

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2677 CTTGATGGATTGTTCTTC 2695
Db 19 CTTGATGGATTATCTTTC 1

RESULT 2152
US-11-101-244-1268922
; Sequence 1268922, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
```

```
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1268922
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1268922

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 823 GAACCTGCTGCTGCTGATGA 841
DB 1 GGACCCUGCUCCUGGAUGA 19

RESULT 2153
US-11-101-244-1276053/c
; Sequence 1276053, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1276053
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1276053

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 TCCTGCTCTCTCTCTCTCC 286
DB 19 TCCTGCTCTCTCTCTCTCC 1

RESULT 2154
US-11-101-244-129299/c
; Sequence 129299, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 129299
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-129299

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 TCCTGCTCTCTCTCTCTCC 286
DB 19 TCCTGCTCTCTCTCTCTCC 1

RESULT 2155
US-11-101-244-1311791/c
; Sequence 1311791, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1311791
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1311791

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1848 TATGCCCAAGCAGAGAGCTT 1866
DB 19 TATGCCACAGCAGAGAGCTT 1

RESULT 2156
US-11-101-244-1317137/c
; Sequence 1317137, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1317137
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1317137
```

```
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1317137
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1317137

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 281 TCTCCACCACTCTCTCCT 299
    |||||
Db 19 TCTTCTCCACCTCTCTCCT 1

RESULT 2157
US-11-101-244-1357388/c
; Sequence 1357388, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1357388
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1357388

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 867 AGAGGCACTGGACATCTTC 885
    |||||
Db 19 AAAGGCACTGGTCATCTTC 1

RESULT 2158
US-11-101-244-1369943/c
; Sequence 1369943, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1369943
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1369943

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 278 TCCTCTCTCCACCACTCTCCT 296
    |||||
Db 19 TACTCTCGCACCACTCTCCT 1

RESULT 2159
US-11-101-244-1373164/c
; Sequence 1373164, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1373164
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1373164

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 TCCTGCTCTCTCTCTCTCC 286
    |||||
Db 19 TCCTTCTCTCTCTCTCTCC 1

RESULT 2160
US-11-101-244-1397330
; Sequence 1397330, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1397330
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1397330
```

```
; SOFTWARE: Proprietary
; SEQ ID NO 1397330
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1397330

Query Match
Best Local Similarity 0.6%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2360 GAGAAGACAGACAGACAG 2378
Db 1 GAGAAGACAAACAAACAG 19

RESULT 2161
US-11-101-244-1405765
; Sequence 1405765, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1405765
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1405765

Query Match
Best Local Similarity 0.6%; Score 15.8; DB 1; Length 19;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2278 ACACAGACCTGCCAAGA 2296
Db 1 ACACUGAUGCUGCCAAGA 19

RESULT 2162
US-11-101-244-1419393
; Sequence 1419393, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1430591

US-11-101-244-1430591/c
; Sequence 1430591, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1430591
```

```
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1430591

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1096 TCTCTCTTCTTCATCTTGG 1114
      ||||| ||||| ||||| |||||
Db 19 TCTCACTTCATCATCTTGG 1

RESULT 2165
US-11-101-244-1447986
; Sequence 1447986, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1447986
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1447986

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.4e+03;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2375 ACAGAAAGCCAGAGGCTTA 2393
      ||||| ||||| ||||| :|
Db 1 ACAGAAAUCCAGAGACUUA 19

RESULT 2166
US-11-101-244-1449588/c
; Sequence 1449588, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1449588
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1449588

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2364 AAGACAGACAGACAGAAAG 2382
      ||||| ||||| ||||| ||
Db 19 AATACAGACAGACAGAAAG 1

RESULT 2167
US-11-101-244-1477154/c
; Sequence 1477154, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1477154
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1477154

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 774 TCTCTTTGAGGAAGAGCTC 792
      ||||| ||||| ||||| ||
Db 19 TCTCTTTGATGAAGTGCTC 1

RESULT 2168
US-11-101-244-1492590
; Sequence 1492590, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1492590
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1492590
```

US-11-101-244-1516022	US-11-101-244-1492590
Query Match	Query Match
Best Local Similarity	Best Local Similarity
Matches	Matches
0.6%; Score 15.8; DB 1; Length 19;	0.6%; Score 15.8; DB 1; Length 19;
89.5%; Pred. No. 1.4e+03;	52.6%; Pred. No. 1.4e+03;
0; Mismatches 2; Indels 0; Gaps 0;	7; Mismatches 2; Indels 0; Gaps 0;
Conservative	Conservative
QY 2361 AGAAGACAGACAGACAGA 2379	QY 1421 GAGATGTGCTGGTTTCCT 1439
Db 1 AGACAGACAGGACAGACAGA 19	Db 1 GAGAUGGUGGAUUCU 19
RESULT 2171	RESULT 2169
US-11-101-244-152077/c	US-11-101-244-1512317/c
Sequence 152077, Application US/11101244	Sequence 1512317, Application US/11101244
Publication No. US20050246794A1	Publication No. US20050246794A1
GENERAL INFORMATION:	GENERAL INFORMATION:
APPLICANT: Dharmakon, Inc.	APPLICANT: Dharmakon, Inc.
APPLICANT: Khvorova, Anastasia	APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela	APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin	APPLICANT: Leake, Devin
APPLICANT: Marshall, William	APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen	APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA	TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US	FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/101,244	CURRENT APPLICATION NUMBER: US/11/101,244
CURRENT FILING DATE: 2005-04-07	CURRENT FILING DATE: 2005-04-07
PRIOR APPLICATION NUMBER: 60/502,050	PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10	PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137	PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14	PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911	NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary	SOFTWARE: Proprietary
SEQ ID NO 152077	SEQ ID NO 1512317
LENGTH: 19	LENGTH: 19
TYPE: RNA	TYPE: RNA
ORGANISM: Homo sapiens	ORGANISM: Homo sapiens
US-11-101-244-152077	US-11-101-244-1512317
Query Match	Query Match
Best Local Similarity	Best Local Similarity
Matches	Matches
0.6%; Score 15.8; DB 1; Length 19;	0.6%; Score 15.8; DB 1; Length 19;
89.5%; Pred. No. 1.4e+03;	89.5%; Pred. No. 1.4e+03;
0; Mismatches 2; Indels 0; Gaps 0;	0; Mismatches 2; Indels 0; Gaps 0;
Conservative	Conservative
QY 1120 ATTACCACTTCTGCTGG 1138	QY 727 TACTACCGCAGCGGCAAGC 745
Db 19 ATAACCACTTCTGCTGG 1	Db 19 TACTACCGCAGCGGCAAGC 1
RESULT 2172	RESULT 2170
US-11-101-244-1526505/c	US-11-101-244-1516022
Sequence 1526505, Application US/11101244	Sequence 1516022, Application US/11101244
Publication No. US20050246794A1	Publication No. US20050246794A1
GENERAL INFORMATION:	GENERAL INFORMATION:
APPLICANT: Dharmakon, Inc.	APPLICANT: Dharmakon, Inc.
APPLICANT: Khvorova, Anastasia	APPLICANT: Khvorova, Anastasia
APPLICANT: Reynolds, Angela	APPLICANT: Reynolds, Angela
APPLICANT: Leake, Devin	APPLICANT: Leake, Devin
APPLICANT: Marshall, William	APPLICANT: Marshall, William
APPLICANT: Scaringe, Stephen	APPLICANT: Scaringe, Stephen
TITLE OF INVENTION: Functional and Hyperfunctional siRNA	TITLE OF INVENTION: Functional and Hyperfunctional siRNA
FILE REFERENCE: 13499US	FILE REFERENCE: 13499US
CURRENT APPLICATION NUMBER: US/11/101,244	CURRENT APPLICATION NUMBER: US/11/101,244
CURRENT FILING DATE: 2005-04-07	CURRENT FILING DATE: 2005-04-07
PRIOR APPLICATION NUMBER: 60/502,050	PRIOR APPLICATION NUMBER: 60/502,050
PRIOR FILING DATE: 2003-09-10	PRIOR FILING DATE: 2003-09-10
PRIOR APPLICATION NUMBER: 60/426,137	PRIOR APPLICATION NUMBER: 60/426,137
PRIOR FILING DATE: 2002-11-14	PRIOR FILING DATE: 2002-11-14
NUMBER OF SEQ ID NOS: 1591911	NUMBER OF SEQ ID NOS: 1591911
SOFTWARE: Proprietary	SOFTWARE: Proprietary
SEQ ID NO 1526505	SEQ ID NO 1516022
LENGTH: 19	LENGTH: 19
TYPE: RNA	TYPE: RNA
ORGANISM: Homo sapiens	ORGANISM: Homo sapiens
US-11-101-244-1526505	US-11-101-244-1516022

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2601 CTAAGTGGTCTGCTCTC 2619  
|||||  
DB 19 CTAAGTGGTCTGAGTTC 1

RESULT 2173  
US-11-101-244-1539097  
; Sequence 1539097, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1539097  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-1539097

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 73.7%; Pred. No. 1.4e+03;  
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1722 GGACATGTATCTCTAAGACA 1740  
|||||  
DB 1 GGACAGUACCCUGAGACA 19

RESULT 2174  
US-11-101-244-1541140/c  
; Sequence 1541140, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1541140  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-1541140

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 271 TGCTCTCTCTCTCTCCACC 289  
|||||  
DB 19 TTCTCTCTCTCTCTCTCC 1

RESULT 2175  
US-11-101-244-1561087  
; Sequence 1561087, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1561087  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-1561087

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 63.2%; Pred. No. 1.4e+03;  
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1074 GGCCAGGGTGTAGCCTTT 1092  
|||||  
DB 1 GGACAGGGUGGUACCUUU 19

RESULT 2176  
US-11-101-244-1570627/c  
; Sequence 1570627, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1570627  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-1570627

Query Match 0.6%; Score 15.8; DB 1; Length 19;



```
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 271 TGCTCTCTCTCTCTCCACC 289
Db 19 TTCTCTCTCTCTCTCTCC 1

RESULT 2177
US-11-101-244-184602
; Sequence 184602, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 184602
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-184602

Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.3%; Pred. No. 1.4e+03;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 105 CCTCGACCTCGTCTTCAC 123
Db 1 CCUGGACCCUGCUUCAC 19

RESULT 2178
US-11-101-244-217777
; Sequence 217777, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 217777
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-217777

Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 1.4e+03;

Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1143 CCACGAGGCGCTTCAACATT 1161
Db 1 CCAGAGGGCCUGCACAU 19

RESULT 2179
US-11-101-244-22379
; Sequence 22379, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 22379
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-22379

Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.4e+03;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1566 GGCCCTGGGTGTGCTCATC 1584
Db 1 GGACCCUGGUGAGCUCUAC 19

RESULT 2180
US-11-101-244-228349/c
; Sequence 228349, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 228349
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-228349

Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

QY 268 TCGTGGCTCTCTCTCTCTCC 286  
Db 19 TTCTTCTCTCTCTCTCTCTCC 1

RESULT 2181  
US-11-101-244-258220  
; Sequence 258220, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 258220  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-258220

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 78.9%; Pred. No. 1.4e+03;  
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1224 GGTAGAAACAGAACCCATT 1242  
Db 1 GGCAGAAACAGAACCAAUU 19

RESULT 2182  
US-11-101-244-264950  
; Sequence 264950, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 264950  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-264950

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 57.9%; Pred. No. 1.4e+03;  
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1775 TGGCTGGTGTGCTAACCAT 1793  
Db 1 UCGCUGGUGUCUACAACAU 19

RESULT 2183  
US-11-101-244-265780  
; Sequence 265780, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 265780  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-265780

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 78.9%; Pred. No. 1.4e+03;  
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1332 CAAGAACCTGCTCAACATC 1350  
Db 1 CAAGAACUCGCUACAACAU 19

RESULT 2184  
US-11-101-244-265787  
; Sequence 265787, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 265787  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-265787

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 73.7%; Pred. No. 1.4e+03;  
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1334 AGAACCTGCTCAACATCAT 1352

```
Db      ||||| ||:|||||:|:|
1 AGAACUCGCUCAACAU 19

RESULT 2185
US-11-101-244-265799
; Sequence 265799, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265799
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-265799

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 1.4e+03;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1586 TTGCCACCATGATCTATTATTA 1604
: |||||:|:|:|:|:|
Db 1 UGCGCCACCAUGAUCUACUA 19

RESULT 2186
US-11-101-244-265804
; Sequence 265804, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265804
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-265804

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.4e+03;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1477 AAGCTCACACGCACTTTG 1495
||||: || |||||:|:|

Db      ||||| ||:|||||:|:|
1 AGAACUCGCUCAACAU 19

RESULT 2187
US-11-101-244-265809
; Sequence 265809, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265809
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-265809

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.4e+03;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1394 TGAGTGGCTGTCTATCCAA 1412
: |||||:|:|:|:|:|
Db 1 UGAGCGCGCUCGUCCUCCAA 19

RESULT 2188
US-11-101-244-265821
; Sequence 265821, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265821
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-265821

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 73.7%; Pred. No. 1.4e+03;
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1331 TCAGAACCTGCTCAACAT 1349
: |||||:|:|:|:|:|
Db 1 UCAGAACUCGCUCAACAU 19
```

```
RESULT 2189
US-11-101-244-265848
; Sequence 265848, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265848
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-265848
```

```
Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 1.4e+03;
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 710 TTGCCTATGCTCAACTA 728
   : |||:|:|:|:|:|:|
Db 1 UCGCCUAGUGGCUCAAUUA 19
```

```
RESULT 2190
US-11-101-244-265880
; Sequence 265880, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265880
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-265880
```

```
Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.8%; Pred. No. 1.4e+03;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1394 TGAGTGGCTGTGCATCCAA 1412
   : |||:|:|:|:|:|:|
Db 1 UCAGUGGGGUGUCAUCAA 19
```

```
RESULT 2191
US-11-101-244-265934
; Sequence 265934, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265934
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-265934
```

```
Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 1.4e+03;
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 710 TTGCCTATGCTCAACTA 728
   : |||:|:|:|:|:|:|
Db 1 UCGCCUAGUGGCUCAAUUA 19
```

```
RESULT 2192
US-11-101-244-265950
; Sequence 265950, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265950
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-265950
```

```
Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 1.4e+03;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1394 TGAGTGGCTGTGCATCCAA 1412
   : |||:|:|:|:|:|:|
Db 1 UCAGUGGGGUGUCAUCAA 19
```

RESULT 2195

```
; Sequence 266020, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266020
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266020

Query Match      0.8%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 1.4e+03;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1589 CCACCATGATCTATTATGC 1607
      |||||:|:|:|:|:|:|:|:|:|
Db 1 CUACCAUGAUCUACUAUGC 19

RESULT 2198
US-11-101-244-266047
; Sequence 266047, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266047
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266047

Query Match      0.8%; Score 15.8; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 1.4e+03;
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 710 TTGCCTATGTGCTCAACTA 728
      :|||:|:|:|:|:|:|:|:|:|
Db 1 UCGCCUAUGUGCUCAAUUA 19

RESULT 2199
US-11-101-244-266078
; Sequence 266078, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266078
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266078

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 1.4e+03;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1818 CAATRACTTTTGGTATGTAC 1836
      ||| |||:|:|:|:|:|:|:|
Db 1 CAACACUUGGCAUGUAC 19

RESULT 2200
US-11-101-244-266130
; Sequence 266130, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266130
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266130

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 1.4e+03;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1394 TGAGTGGCCTGTCTATCCAA 1412
      :|||:|:|:|:|:|:|:|
Db 1 UCAGUGGGCUGUCAUCCAA 19

RESULT 2201
US-11-101-244-266138
; Sequence 266138, Application US/11101244
; Publication No. US20050246794A1
```

```
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266138
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266138
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 1.4e+03;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 713 CCTATGTCCTCAACTACTA 731
      ||| ||| ||| ||| ||| ||| |||
Db 1 CGUACGUGCUCAACUACUA 19
```

```
RESULT 2202
US-11-101-244-266143
; Sequence 266143, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266143
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266143
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 1.4e+03;
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1817 TCAATAACTTTGGTATGTA 1835
      :||| ||| ||| ||| ||| ||| |||
Db 1 UCAACAACUUUGGCAUGUA 19
```

```
RESULT 2203
US-11-101-244-266145
; Sequence 266145, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
```

```
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266145
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266145
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.4e+03;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 823 GAACCTGCTGCTGGATGA 841
      ||| ||| ||| ||| ||| ||| |||
Db 1 GAGGCCUGCUGCGGAUGA 19
```

```
RESULT 2204
US-11-101-244-266148
; Sequence 266148, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266148
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266148
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 1.4e+03;
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1816 GTCATAACTTTGGTATGT 1834
      ||| ||| ||| ||| ||| ||| |||
Db 1 GUCACAACUUUGGCAUGU 19
```

```
RESULT 2205
US-11-101-244-266198
; Sequence 266198, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
```

```
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266198
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266198
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.4e+03;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1951 GACAGCACCTACAGTGACA 1969
Db 1 GACAGCACCCUGCAGUGAUA 19
```

```
RESULT 2206
US-11-101-244-266208
; Sequence 266208, Application US/1101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266208
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266208
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.4e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 2006 GGAACAGCAGCAGACTCAA 2024
Db 1 GGAACAGCGGCAGACUCUAA 19
```

```
RESULT 2207
US-11-101-244-266215
; Sequence 266215, Application US/1101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
```

```
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266215
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266215
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.4e+03;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 2524 GTACATTGAAGAGACATAT 2542
Db 1 GUACAUCGAAGAGAUUAU 19
```

```
RESULT 2208
US-11-101-244-266228
; Sequence 266228, Application US/1101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266228
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266228
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.4e+03;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 2529 TTGAAGAGACATATATGCA 2547
Db 1 UCGAAGAGAUUAUUAUGCA 19
```

```
RESULT 2209
US-11-101-244-266233
; Sequence 266233, Application US/1101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
```



RESULT 2213  
US-11-101-244-266246  
; Sequence 266246, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorovova, Anastasia  
; APPLICANT: Reynolds, Angeia  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William

```
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266246
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266246

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.4e+03;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 2527 CATTGAAGAGACATATATG 2545
||: ||||| |:|:|:|
Db 1 CAUCGAAGAGAUUAUUG 19

RESULT 2214
US-11-101-244-266272
; Sequence 266272, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266272
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266272

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 52.8%; Pred. No. 1.4e+03;
Matches 10; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

QY 674 GCTGTGAGTTCTTCTTGA 692
||: ||||| |:|:|:|
Db 1 GCUGCGAGUUCUUCUGA 19

RESULT 2215
US-11-101-244-266288
; Sequence 266288, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
```

```
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266288
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266288

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.4e+03;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 2175 GTCAGTGTGGGACTAT 2193
||: |||| |:|:|:|
Db 1 GCUCAGCACUGGGACUAU 19

RESULT 2216
US-11-101-244-266290
; Sequence 266290, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266290
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266290

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2361 AGAAGACAGACAGACAGA 2379
||: ||||| |:|:|:|
Db 1 AGAGAGACAGCAGACAGA 19

RESULT 2217
US-11-101-244-266298
; Sequence 266298, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
```

```
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266298
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266298

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.4e+03;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1951 GACAGCACCTACGTGACA 1969
      |||||:||||:||||:
Db 1 GACAGCACCGCAGUGAUA 19

RESULT 2218
US-11-101-244-266325
; Sequence 266325, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266325
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266325

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 1.4e+03;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 710 TTGCCTATGTCTCAACTA 728
      :|||:|:||||:|
Db 1 UCGCCUACGUCUACAUA 19

RESULT 2219
US-11-101-244-266327
; Sequence 266327, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
```

```
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266327
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266327

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.4e+03;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1903 CAGCTTGAGTCACCCATTT 1921
      ||||:||||:||||:
Db 1 CAGCUGGAGUCACCCAUGU 19

RESULT 2220
US-11-101-244-266342
; Sequence 266342, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266342
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266342

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 52.6%; Pred. No. 1.4e+03;
Matches 10; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

QY 674 GCTGTGAGTCTCTTTTGA 692
      |||:||||:|:|
Db 1 GCUGCGAGUCUUCUUGCA 19

RESULT 2221
US-11-101-244-266367
; Sequence 266367, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
```

```
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266367
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266367
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 68.4%; Pred. No. 1.4e+03;
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1318 ACGTTGGACTTTGTCAAGA 1336
|||:||||:|:||||
Db 1 ACGCUGACUUCGUCAGA 19
```

```
RESULT 2222
US-11-101-244-270184/c
; Sequence 270184, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 270184
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-270184
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1556 TCATCTTCCTGGCCCTGGG 1574
|||||:|||||:|||||
Db 19 TCATCGTCTGCTGCTGGG 1
```

```
RESULT 2223
US-11-101-244-271359
; Sequence 271359, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
```

```
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 271359
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-271359
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 52.6%; Pred. No. 1.4e+03;
Matches 10; Conservative 7; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1343 TCAACATCATCGACTTTGT 1361
:||||:|:||||:
Db 1 UGAACAUCAUUGACUUGU 19
```

```
RESULT 2224
US-11-101-244-305036/c
; Sequence 305036, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 305036
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-305036
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 860 ATGCTGAAGAGGCACCTGGA 878
|||||:|||||:|||||
Db 19 AAGCTGAAGAGGCACCTGGA 1
```

```
RESULT 2225
US-11-101-244-305136/c
; Sequence 305136, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
```

```
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 305136
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-305136

Query Match
Best Local Similarity 0.6%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 860 ATGCTGAAGAGGCACTGGA 878
Db 19 AAGCTGAAGAGGCACTGGA 1

RESULT 2226
US-11-101-244-305233/c
; Sequence 305233, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 305233
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-305233

Query Match
Best Local Similarity 0.6%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 860 ATGCTGAAGAGGCACTGGA 878
Db 19 AAGCTGAAGAGGCACTGGA 1

RESULT 2227
US-11-101-244-305335/c
; Sequence 305335, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 305335
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-305335

Query Match
Best Local Similarity 0.6%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 860 ATGCTGAAGAGGCACTGGA 878
Db 19 AAGCTGAAGAGGCACTGGA 1

RESULT 2228
US-11-101-244-351811/c
; Sequence 351811, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 351811
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-351811

Query Match
Best Local Similarity 0.6%; Score 15.8; DB 1; Length 19;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 TCCTGCCTCCTCCTCCTCC 286
Db 19 TTCTTCCTCCTCCTCCTCC 1

RESULT 2229
US-11-101-244-351910/c
; Sequence 351910, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 351910
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-351910
```

```
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 351910
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-351910

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 TCCTGCTCTCTCTCTCTCC 286
Db 19 TTCTTCTCTCTCTCTCTCC 1

RESULT 2230
US-11-101-244-351969/c
; Sequence 351969, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 351969
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-351969

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 TCCTGCTCTCTCTCTCTCC 286
Db 19 TTCTTCTCTCTCTCTCTCC 1

RESULT 2231
US-11-101-244-351981/c
; Sequence 351981, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 351981
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-351981

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 TCCTGCTCTCTCTCTCTCC 286
Db 19 TTCTTCTCTCTCTCTCTCC 1

RESULT 2232
US-11-101-244-374845/c
; Sequence 374845, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 374845
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-374845

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2602 TACTGTGTGTCTGTCTTCA 2620
Db 19 TACTGTGTGTATTTCTTCA 1

RESULT 2233
US-11-101-244-386298
; Sequence 386298, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 386298
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-386298

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2602 TACTGTGTGTGTCTGTCTTCA 2620
Db 19 TACTGTGTGTATTTCTTCA 1
```

```
; SOFTWARE: Proprietary
; SEQ ID NO 386298
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-386298

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2361 AGAAGACAGACAGACAGAGA 2379
      ||||| ||||| ||||| |||||
DB 1 AGAAGACAGACAGACAGAGA 19

RESULT 2234
US-11-101-244-395666
; Sequence 395666, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 395666
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-395666

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.4e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2012 GAGCAGATCCACGAGAA 2030
      ||||| ||||| ||||| |||||
DB 1 GAGCAGCCUCAAGCAGAA 19

RESULT 2235
US-11-101-244-396040/c
; Sequence 396040, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 412397

US-11-101-244-412397
; Sequence 412397, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 412397
```

```
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-412397

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2361 AGAAGACAGACAGACAGACA 2379
Db 1 AGACAGACCGACAGACAGA 19

RESULT 2238
US-11-101-244-412402
; Sequence 412402, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 412402
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-412402

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2363 AAAGACAGACAGACAGAAA 2381
Db 1 AAAGACAGACCGACAGACA 19

RESULT 2239
US-11-101-244-412596
; Sequence 412596, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 412596
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-412596

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2363 AAAGACAGACAGACAGAAA 2381
Db 1 AAAGACAGACCGACAGACA 19

RESULT 2240
US-11-101-244-412601
; Sequence 412601, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 412601
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-412601

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2363 AAAGACAGACAGACAGAAA 2381
Db 1 AAAGACAGACCGACAGACA 19

RESULT 2241
US-11-101-244-4135/c
; Sequence 4135, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 4135
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-4135/c
```



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; ORGANISM: Homo sapiens
US-11-101-244-4135

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1107 CATCTGGTCTCATPACC 1125
   ||||| ||||| |||||
Db 19 CATCTGGCTCATCACC 1

RESULT 2242
US-11-101-244-4177/c
; Sequence 4177, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 4177
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-4177

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1328 TTGTCAAGAACTGCTCAA 1346
   ||||| ||||| |||||
Db 19 TTGTGAAGAACTGCTCAA 1

RESULT 2243
US-11-101-244-417987/c
; Sequence 417987, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 417987
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-432369/c
; Sequence 432369, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 432369
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-432369
```

```
US-11-101-244-417987

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 271 TGCCTCCTCCTCCTCCACC 289
   ||||| ||||| |||||
Db 19 TTCTCCTCCTCCTCCTCC 1

RESULT 2244
US-11-101-244-425439/c
; Sequence 425439, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 425439
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-425439

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 TCCTGCCTCCTCCTCCTCC 286
   ||||| ||||| |||||
Db 19 TTCTCCTCCTCCTCCTCC 1

RESULT 2245
US-11-101-244-432369/c
; Sequence 432369, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 432369
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-432369
```

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1100 TCTTCTTCATCTGGTCTC 1118  
|||:||||:||||:||||:||||:  
Db 19 TCTTCTTCAGCTGGGCTC 1

RESULT 2246  
US-11-101-244-44688  
; Sequence 44688, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 44688  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-44688

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 68.4%; Pred. No. 1.4e+03;  
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1335 GAACCTGCTCAACATCATC 1353  
|||||:|:|:|:|:|:|:|:|:|:  
Db 1 GAACCGUGGACGCAUCAUC 19

RESULT 2247  
US-11-101-244-452847  
; Sequence 452847, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 452847  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-452847

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 52.6%; Pred. No. 1.4e+03;  
Matches 10; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

QY 674 GCTGTGAGTTCTTCTTTGA 692  
|||:||||:|:|:|:|:|:|:|:  
Db 1 GCUGUGAGUCCUCUGUGA 19

RESULT 2248  
US-11-101-244-456773  
; Sequence 456773, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 456773  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-456773

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 78.9%; Pred. No. 1.4e+03;  
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1330 GTCAAGAACCTGCTCAACA 1348  
|||||:|:|:|:|:|:|:|:|:|:  
Db 1 GCGAAGAAACUGCUCAACA 19

RESULT 2249  
US-11-101-244-458447/c  
; Sequence 458447, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 458447  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-458447

Query Match 0.6%; Score 15.8; DB 1; Length 19;

```
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 TCCTGCTCTCTCTCTCTCC 286
Db 19 TTCTTCTCTCTCTCTCTCC 1

RESULT 2250
US-11-101-244-458545/c
; Sequence 458545, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 458545
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-458545

Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 TCCTGCTCTCTCTCTCTCC 286
Db 19 TTCTTCTCTCTCTCTCTCC 1

RESULT 2251
US-11-101-244-46564
; Sequence 46564, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 46564
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-46564

Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 47.4%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3 GCGCTTCTCTGTCCTTCTG 21
Db 1 GCGCUACUCUCUCUUCUG 19

RESULT 2252
US-11-101-244-496456
; Sequence 496456, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 496456
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-496456

Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2362 GAAAGACAGACAGACAGAA 2380
Db 1 GAAAGACAAACAGAAAGAA 19

RESULT 2253
US-11-101-244-496508
; Sequence 496508, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 496508
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-496508

Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

QY 2361 AGAAGACAGACAGACAG 2379  
|||  
Db 1 AGAAGACAAACAGAAAG 19

RESULT 2254  
US-11-101-244-496510  
; Sequence 496510, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 496510  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-496510

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2360 GAGAAAGACAGACAGACAG 2378  
|||  
Db 1 GAGAAAGACAAACAGAAAG 19

RESULT 2255  
US-11-101-244-511184/c  
; Sequence 511184, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 511184  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-511184

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 281 TCCTCCACCACCTCTCTCT 299  
|||  
Db 19 TCATCCACCACCTCCACCT 1

RESULT 2256  
US-11-101-244-511303/c  
; Sequence 511303, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 511303  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-511303

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 TCCTGCCTCTCTCTCTCTCC 286  
|||  
Db 19 TTTCTCTCTCTCTCTCTCTCC 1

RESULT 2257  
US-11-101-244-53184/c  
; Sequence 53184, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 53184  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-53184

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 TCCTGCCTCTCTCTCTCTCC 286

```
Db 19 TCCTTCCTCCTCCTCTCC 1

RESULT 2258
US-11-101-244-53283/c
; Sequence 53283, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 53283
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-53283

Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 TCCTGCCTCCTCCTCTCC 286
Db 19 TCCTTCCTCCTCCTCTCC 1

RESULT 2259
US-11-101-244-54059
; Sequence 54059, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 54059
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-54059

Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 1.4e+03;
Matches 15; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1857 GCAGAGCTTCCCAAGAA 1875
Db 19 TCCTTCCTCCTCCTCTCC 1

RESULT 2260
US-11-101-244-561064/c
; Sequence 561064, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 561064
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-561064

Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1423 GATGTGCTGGGTTTCCTGC 1441
Db 19 GATGAGCTGGGTCCTCTGC 1

RESULT 2261
US-11-101-244-567450
; Sequence 567450, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 567450
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-567450

Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 1.4e+03;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1701 CATGCAACGCTTGCTAT 1719
Db 1 CAUGACCACUCUGGCUAU 19
```

```
RESULT 2262
US-11-101-244-574829/c
; Sequence 574829, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 574829
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-574829

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 505 GAGAGATCATCATCAACG 523
Db 19 GAGAGATCATCTCATCG 1

RESULT 2263
US-11-101-244-590449
; Sequence 590449, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 590449
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-590449

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 1.4e+03;
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1344 CAACATCATCGACTTTGTG 1362
Db 1 CAACAUCACCAAGUUUG 19

RESULT 2264
US-11-101-244-590522
; Sequence 590522, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 590522
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-590522

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 1.4e+03;
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1344 CAACATCATCGACTTTGTG 1362
Db 1 CAACAUCACCAAGUUUG 19

RESULT 2265
US-11-101-244-631662/c
; Sequence 631662, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 631662
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-631662

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2273 TTTAAACACAGACCTGC 2291
Db 19 TTTCAAAACAGACCTGC 1
```

## RESULT 2266

US-11-101-244-644391  
; Sequence 644391, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 644391  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-644391

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 84.2%; Pred. No. 1.4e+03;  
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 476 AGGAGGAGTGGCCAGGG 494  
| | | | | | | | | | | | | | | | | |  
Db 1 AGGAGAAGGAGGCCAAGUG 19

## RESULT 2267

US-11-101-244-647143  
; Sequence 647143, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 647143  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-647143

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 73.7%; Pred. No. 1.4e+03;  
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1652 ACACCGACTTCAAGAACAT 1670  
| | | | | | | | | | | | | | | | | |  
Db 1 AGACCUACUCCAGAACAU 19

## RESULT 2268

US-11-101-244-649664/c  
; Sequence 649664, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 649664  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-649664

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 271 TGCTCTCTCTCTCTCCACC 289  
| | | | | | | | | | | | | | | | | |  
Db 19 TTCTCTCTCTCTCTCTCC 1

## RESULT 2269

US-11-101-244-655713  
; Sequence 655713, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 655713  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-655713

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 68.4%; Pred. No. 1.4e+03;  
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1394 TGAGTGGCCTGTCTATCCAA 1412  
| | | | | | | | | | | | | | | | | |  
Db 1 UGAGUGCCUGCCAUCCAA 19

## RESULT 2270

US-11-101-244-65992/c

```
; Sequence 65992, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 65992
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-65992

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1787 TAACCATGGCCATGCTGT 1805
Db 19 TAACCATGGCCATGCTGT 1

RESULT 2271
US-11-101-244-670991
; Sequence 670991, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 670991
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-670991

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 52.6%; Pred. No. 1.4e+03;
Matches 10; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

QY 764 TCCTGGGGCTCTCTTGA 782
Db 1 UCUGUGGGGUGGCUUUGA 19

RESULT 2272
US-11-101-244-689001/c
; Sequence 689001, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 689001
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-689001

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 63.2%; Pred. No. 1.4e+03;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1703 TGACACGCTTGCTATGG 1721
Db 1 UGAAAAGGCGUGGCUAUGG 19

RESULT 2273
US-11-101-244-704548
; Sequence 704548, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 704548
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-704548

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1099 CTCCTTCATCTTGCTCT 1117
Db 19 CTCATCATCATCTTGCTCT 1

RESULT 2274
US-11-101-244-732988
; Sequence 732988, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 732988
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-732988

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 53.2%; Pred. No. 1.4e+03;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1703 TGACACGCTTGCTATGG 1721
Db 1 UGAAAAGGCGUGGCUAUGG 19

RESULT 2275
US-11-101-244-732988
; Sequence 732988, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 732988
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-732988

Query Match      0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 53.2%; Pred. No. 1.4e+03;
Matches 12; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1703 TGACACGCTTGCTATGG 1721
Db 1 UGAAAAGGCGUGGCUAUGG 19
```



GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; PRIOR FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 732988  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-732988

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 68.4%; Pred. No. 1.4e+03;  
Matches 13; Conservative 4; Mismatches 2; Indels 0; Gaps 0;  
QY 981 AGGAGCTCTGGCCCTGT 999  
Db 1 AGGAGCUCUGGCCCUUG 19

RESULT 2275  
US-11-101-244-736252  
; Sequence 736252, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 736252  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-736252

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 57.9%; Pred. No. 1.4e+03;  
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;  
QY 1349 TCATGACCTTTGTGGCCAT 1367  
Db 1 UCAACGACUUGGGACAU 19

RESULT 2276  
US-11-101-244-753557/c  
; Sequence 753557, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.

APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 753557  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-753557

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 1100 TCTTCTTCATCTTGGTCTC 1118  
Db 19 TCTTCTTCAGCTTGGGCTC 1

RESULT 2277  
US-11-101-244-753652/c  
; Sequence 753652, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 753652  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-753652

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 1100 TCTTCTTCATCTTGGTCTC 1118  
Db 19 TCTTCTTCAGCTTGGGCTC 1

RESULT 2278  
US-11-101-244-757354/c  
; Sequence 757354, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.

```
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 757354
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-757354
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 2051 TGTCGGATGAGGAGGAGC 2069
|||||
Db 19 TGTCGATGAGGTGGGAGC 1
```

```
RESULT 2279
US-11-101-244-757458/c
; Sequence 757458, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 757458
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-757458
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 2051 TGTCGGATGAGGAGGAGC 2069
|||||
Db 19 TGTCGATGAGGTGGGAGC 1
```

```
RESULT 2280
US-11-101-244-757562/c
; Sequence 757562, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
```

```
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 757562
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-757562
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 2051 TGTCGGATGAGGAGGAGC 2069
|||||
Db 19 TGTCGATGAGGTGGGAGC 1
```

```
RESULT 2281
US-11-101-244-813399/c
; Sequence 813399, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 813399
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-813399
```

```
Query Match 0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1099 CTCCTCTTCATCTTGGTCT 1117
|||||
Db 19 CTCCTCTTCATCTGAGTCT 1
```

```
RESULT 2282
US-11-101-244-841312/c
; Sequence 841312, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
```

; APPLICANT: Leake, Devin  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 841312  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-841312

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 271 TGCTCTCTCTCTCTCCACC 289  
DB 19 TTCTCTCTCTCTCTCTCC 1

RESULT 2283  
US-11-101-244-853052/c  
; Sequence 853052, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmakon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 853052  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-853052

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 116 GTCCTCACCTCTCTGCTCC 134  
DB 19 GTCCTCACCTCTCTGCTCC 1

RESULT 2284  
US-11-101-244-881283  
; Sequence 881283, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmakon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 881283  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-881283

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 73.7%; Pred. No. 1.4e+03;  
Matches 14; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1410 CAAGGCAGCTCGAGATGTCG 1428  
DB 1 CGAGGCAGCUGGAGGUG 19

RESULT 2285  
US-11-101-244-892033/c  
; Sequence 892033, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmakon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 892033  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-892033

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 89.5%; Pred. No. 1.4e+03;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1096 TCTCTCTCTCTCTCTGCG 1114  
DB 19 TTCTCTCTCTCTCTCTGCG 1

RESULT 2286  
US-11-101-244-907691  
; Sequence 907691, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmakon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William

```
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 907691
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-907691

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 57.9%; Pred. No. 1.4e+03;
Matches 11; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 1817 TCAATAACTTTGGTATGTA 1835
      :||| |||::||| |:|:|
Db 1 UCAAGAACUUUGGAUGUA 19

RESULT 2287
US-11-101-244-907992/c
; Sequence 907992, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 907992
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-907992

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1100 TCTTCTCATCTTGGTCTC 1118
      ||||| ||| |||||
Db 19 TCTTCTCTCTCTGCTC 1

RESULT 2288
US-11-101-244-907994/c
; Sequence 907994, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
```

```
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 907994
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-907994

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1102 TTCTTCATCTTGGTCTCCA 1120
      ||||| ||| |||||
Db 19 TTCTTCTCTCTGCTCTCCA 1

RESULT 2289
US-11-101-244-914735/c
; Sequence 914735, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 914735
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-914735

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 TCTGCTCTCTCTCTCTCC 286
      ||| ||||| |||||
Db 19 TTCTTCTCTCTCTCTCTCC 1

RESULT 2290
US-11-101-244-92699/c
; Sequence 92699, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
```

```

; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 92699
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-92699

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 TCCTGCTCTCTCTCTCTCC 286
DB 19 TTCTTCTCTCTCTCTCTCC 1

RESULT 2291
US-11-101-244-92728/c
; Sequence 92728, Application US/11/101,244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 92728
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-92728

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 271 TGCCTCTCTCTCTCTCCACC 289
DB 19 TTCTTCTCTCTCTCTCTCC 1

RESULT 2292
US-11-101-244-931272/c
; Sequence 931272, Application US/11/101,244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 931272
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-931272

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1766 TGTGTGCACTGGCTGGTGT 1784
DB 19 TATGTGTACTGGCTGGTGT 1

RESULT 2293
US-11-101-244-975201/c
; Sequence 975201, Application US/11/101,244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 975201
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-975201

Query Match          0.6%; Score 15.8; DB 1; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.4e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1766 TGTGTGCACTGGCTGGTGT 1784
DB 19 TATGTGTACTGGCTGGTGT 1

RESULT 2294
US-11-101-244-99429
; Sequence 99429, Application US/11/101,244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 99429
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-99429
```

```

; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 9429
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-99429a

```

Query Match 0.6%; Score 15.8; DB 1; Length 19;  
Best Local Similarity 84.2%; Pred. NO. 1.4e+03;  
Matches 16: Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy	2014	GCAGACTCCAAGCAGAATG	2032
			:
pB	1	GCAGUACCAAGCAGAUG	19

```

RESULT 2295
US-10-310-914A-100637/c
; Sequence 100637, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlizer, Kvuizat
; TITLE OF INVENTION: Bioinformatically de
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,91
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 100637
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-100637

```

```
Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

Qy 659 GCGCGGCGGCGGGC 675  
p/b 18 GCGCGGCGGCGGGC 2

```

RESULT 2296
US-10-310-914A-1016583
; Sequence 1016583, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shilet, Kvuzaat
; TITLE OF INVENTION: Bioinformatically determined
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1398402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1016583
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1016583

```

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;

	Matches	15;	Conservative	0;	Mismatches	1;	Indels	0;	Gaps
Qy	659	GGCGCGCGCGCGCGCGC	675						
Db	1	GGCGCGCGCGCGCGCGC	17						

```

RESULT 2297
US-10-310-914A-102205/c
; Sequence 102205, Application US/10310914A
; Publication No. US2006000322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Knyazat
; TITLE OF INVENTION: Bioinformatically deter
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 102205
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-102205

```

Query Match	0.5%	Score 15.4;	DB 1;	Length 18;
Best Local Similarity	94.1%;	Pred. No. 1.3e+03;		
Matches 16;	Conservative	0;	Mismatches 1;	Indels 0;
				Gaps 0;

Qy 654 CAGCAGCGCGCGCGCG 670  
pb 17 CAGCGCGCGCGCGCG 1

```

RESULT 2298
US-10-310-914A-1028307/c
; Sequence 1028307, Application US/10310914A
; Publication No. US2006000322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kuzat
; TITLE OF INVENTION: Bioinformatically deter
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: Patent in version 3.3
; SEQ ID NO 1028307
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1028307

```

Query Match	0.5%	Score 15.4;	DB 1;	Length 18;
Best Local Similarity	94.1%;	Pred. No. 1.3e+03;		
Matches 16:	Conservative	0;	Mismatches 1;	Indels 0;
	Gaps	0;		

QY 209 GGGGTGGGTGGGGG 225  
|||  
pB 17 GGGGTGGGTGGGAGG 1

RESULT 2299  
US-10-310-914A-1032207/c  
; Sequence 1032207, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kuzat  
; TITLE OF INVENTION: Bioinformatically deter

; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1032207  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1032207

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 309 CTCCTCCCCCTCCCGT 325  
Db 17 CTCCTCCCCCTCCCGT 1

RESULT 2300  
US-10-310-914A-1036320/c  
; Sequence 1036320, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1036320  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1036320

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 661 GCGCGCGCGGGGCTG 677  
Db 17 GCGCGCGCGGGGCGG 1

RESULT 2301  
US-10-310-914A-1037665/c  
; Sequence 1037665, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1037665  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1037665

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 652 GCGCAGCGCGGCGG 668  
Db 17 GCGCGCAGCGGCGGCGG 1

RESULT 2302  
US-10-310-914A-1044107  
; Sequence 1044107, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1044107  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1044107

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGC 660  
Db 1 GCAGCAGCGGCAACAGC 17

RESULT 2303  
US-10-310-914A-1062176  
; Sequence 1062176, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1062176  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1062176

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 1.3e+03;  
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 661 GCGCGCGCGGGGCTG 677  
Db 1 GCGCGCGCGGCGGCGUG 17

RESULT 2304  
US-10-310-914A-1069551  
; Sequence 1069551, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof

FILE REFERENCE: 06087.0200.CPUS01  
CURRENT APPLICATION NUMBER: US/10/310,914A  
NUMBER OF SEQ ID NOS: 1388402  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 1069551  
LENGTH: 18  
TYPE: RNA  
ORGANISM: Human  
US-10-310-914A-1069551

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGGCGGGCGGGCGC 675  
Db 2 GCGGGCGGGCGGGCGC 18  
|||||

RESULT 2305  
US-10-310-914A-1074271/c  
Sequence 1074271, Application US/10310914A  
Publication No. US20060003322A1  
GENERAL INFORMATION:  
APPLICANT: Bentwich, Isaac  
APPLICANT: Shiller, Kvuzat  
TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
TITLE OF INVENTION: uses thereof  
FILE REFERENCE: 06087.0200.CPUS01  
CURRENT APPLICATION NUMBER: US/10/310,914A  
CURRENT FILING DATE: 2002-12-06  
NUMBER OF SEQ ID NOS: 1388402  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 1074271  
LENGTH: 18  
TYPE: RNA  
ORGANISM: Human  
US-10-310-914A-1074271

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACCTGT 2268  
Db 18 CAGTGGCTCACCTGT 2  
|||||

RESULT 2306  
US-10-310-914A-107955/c  
Sequence 107955, Application US/10310914A  
Publication No. US20060003322A1  
GENERAL INFORMATION:  
APPLICANT: Bentwich, Isaac  
APPLICANT: Shiller, Kvuzat  
TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
TITLE OF INVENTION: uses thereof  
FILE REFERENCE: 06087.0200.CPUS01  
CURRENT APPLICATION NUMBER: US/10/310,914A  
CURRENT FILING DATE: 2002-12-06  
NUMBER OF SEQ ID NOS: 1388402  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 107955  
LENGTH: 18  
TYPE: RNA  
ORGANISM: Human  
US-10-310-914A-107955

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 208 GGGGGTGGGTGGGGG 224  
Db 18 GGGGGTGGGTGGGGT 2  
|||||

RESULT 2307  
US-10-310-914A-1084012  
Sequence 1084012, Application US/10310914A  
Publication No. US20060003322A1  
GENERAL INFORMATION:  
APPLICANT: Bentwich, Isaac  
APPLICANT: Shiller, Kvuzat  
TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
TITLE OF INVENTION: uses thereof  
FILE REFERENCE: 06087.0200.CPUS01  
CURRENT APPLICATION NUMBER: US/10/310,914A  
CURRENT FILING DATE: 2002-12-06  
NUMBER OF SEQ ID NOS: 1388402  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 1084012  
LENGTH: 18  
TYPE: RNA  
ORGANISM: Human  
US-10-310-914A-1084012

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 647 GCAGCGGCAGCGGC 663  
Db 2 GCGGGCGGCAGCGGC 18  
|||||

RESULT 2308  
US-10-310-914A-1086206/c  
Sequence 1086206, Application US/10310914A  
Publication No. US20060003322A1  
GENERAL INFORMATION:  
APPLICANT: Bentwich, Isaac  
APPLICANT: Shiller, Kvuzat  
TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
TITLE OF INVENTION: uses thereof  
FILE REFERENCE: 06087.0200.CPUS01  
CURRENT APPLICATION NUMBER: US/10/310,914A  
CURRENT FILING DATE: 2002-12-06  
NUMBER OF SEQ ID NOS: 1388402  
SOFTWARE: PatentIn version 3.3  
SEQ ID NO 1086206  
LENGTH: 18  
TYPE: RNA  
ORGANISM: Human  
US-10-310-914A-1086206

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 309 CTCCTCCCCCTCCCGT 325  
Db 17 CTCCTCCCCCTCCCGT 1  
|||||

RESULT 2309  
US-10-310-914A-1100444  
Sequence 1100444, Application US/10310914A  
Publication No. US20060003322A1  
GENERAL INFORMATION:  
APPLICANT: Bentwich, Isaac  
APPLICANT: Shiller, Kvuzat  
TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
TITLE OF INVENTION: uses thereof  
FILE REFERENCE: 06087.0200.CPUS01



; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1100444  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1100444

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 52.9%; Pred. No. 1.3e+03;  
Matches 9; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY 294 CCTCTCCTCTCGTCT 310  
||:|:|:|:|:|:|:|:  
Db 2 CCUCCUCCUUGUCU 18

## RESULT 2310

US-10-310-914A-114310  
; Sequence 114310, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 114310  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-114310

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 58.8%; Pred. No. 1.3e+03;  
Matches 10; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 299 TCCTTCGTCTCCCTCC 315  
:|:|:|:|:|:|:|:  
Db 1 UCCUUCUGCCUCCUCC 17

## RESULT 2311

US-10-310-914A-1149399/c  
; Sequence 1149399, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1149399  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1149399

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGG 225

Db 18 GGGGTGGGTGGGGGGG 2  
|||||

## RESULT 2312

US-10-310-914A-1149401/c  
; Sequence 1149401, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1149401  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1149401

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGG 225  
|||||  
Db 17 GGGGTGGGTGGGGGGG 1

## RESULT 2313

US-10-310-914A-1149656  
; Sequence 1149656, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1149656  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1149656

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 82.4%; Pred. No. 1.3e+03;  
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGTGGGG 222  
|||||  
Db 2 GGGGAGGUGGGGGGGG 18

## RESULT 2314

US-10-310-914A-1157526  
; Sequence 1157526, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1157526  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1157526

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 64.7%; Pred. No. 1.3e+03;  
Matches 11; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 290 ACTCTCTCTCTCTTC 306  
|||:|:|:|:|:|:|:|:|:|:  
Db 1 ACCUCCUCCUCCUCCUC 17

## RESULT 2315

US-10-310-914A-1157545  
; Sequence 1157545, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1157545  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1157545

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 70.6%; Pred. No. 1.3e+03;  
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 284 TCCACCACTCTCTCTTC 300  
:|||||:|:|:|:|:|:|:|:  
Db 2 UCCACGACCUCCUCCUC 18

## RESULT 2316

US-10-310-914A-1169106/c  
; Sequence 1169106, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1169106  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1169106

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACCTGT 2268  
|||||:|:|:|:|:|:|:|:  
|||:|:|:|:|:|:|:|:

Db 18 CAGTGTCTCACCTGT 2

## RESULT 2317

US-10-310-914A-120639  
; Sequence 120639, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 120639  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-120639

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGGC 666  
|||||:|:|:|:|:|:|:|:  
Db 1 GCGGCAGCAGCGCGGC 17

## RESULT 2318

US-10-310-914A-1207502  
; Sequence 1207502, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1207502  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1207502

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 76.5%; Pred. No. 1.3e+03;  
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 276 CCTCTCTCTCCACCACC 292  
|||:|:|:|:|:|:|:|:  
Db 2 CCUCCUCCUCCACCACC 18

## RESULT 2319

US-10-310-914A-1211674/c  
; Sequence 1211674, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1211674  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1211674

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2537 ACATATATGCACATATA 2553  
||| ||||| ||||| |||||  
DB 17 ACATATATACACATATA 1

RESULT 2320  
US-10-310-914A-1211675/c  
; Sequence 1211675, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1211675  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1211675

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2537 ACATATATGCACATATA 2553  
||| ||||| ||||| |||||  
DB 17 ACATATATACACATATA 1

RESULT 2321  
US-10-310-914A-1230404  
; Sequence 1230404, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1230404  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1230404

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 82.4%; Pred. No. 1.3e+03;  
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGG 222  
||| ||||| ||||| |||||  
DB 2 GGUGGGGUGGGUGGGG 18

RESULT 2322  
US-10-310-914A-1249812/c  
; Sequence 1249812, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1249812  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1249812

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGG 225  
||| ||||| ||||| |||||  
DB 18 GGGGGGGGTGGGGGGG 2

RESULT 2323  
US-10-310-914A-1263315  
; Sequence 1263315, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1263315  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1263315

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 647 GCAGCGGCAGCAGCGGC 663  
||| ||||| ||||| |||||  
DB 2 GCGGGCGGCAGCAGCGGC 18

RESULT 2324  
US-10-310-914A-1263740/c  
; Sequence 1263740, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1263740  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1263740

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 273 CCTCCTCCTCCTCCACC 289  
|||||  
Db 18 CCTCCTCCTCCTCCTCC 2

RESULT 2325  
US-10-310-914A-1263741/c  
; Sequence 1263741, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1263741  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1263741

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 273 CCTCCTCCTCCTCCACC 289  
|||||  
Db 18 CCTCCTCCTCCTCCTCC 2

RESULT 2326  
US-10-310-914A-1263742/c  
; Sequence 1263742, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1263742  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1263742

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 273 CCTCCTCCTCCTCCACC 289  
|||||  
Db 18 CCTCCTCCTCCTCCTCC 2

RESULT 2327  
US-10-310-914A-1263743/c  
; Sequence 1263743, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1263743  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1263743

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 273 CCTCCTCCTCCTCCACC 289  
|||||  
Db 18 CCTCCTCCTCCTCCTCC 2

RESULT 2328  
US-10-310-914A-1268679  
; Sequence 1268679, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1268679  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1268679

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 476 AGGAGGAGATGCCCAAG 492  
|||||  
Db 1 AGGAGGAGGAGGCCCAAG 17

RESULT 2329  
US-10-310-914A-1284874  
; Sequence 1284874, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3

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; SEQ ID NO 1284874
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1284874

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 52.9%; Pred. No. 1.3e+03;
Matches 9; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY 299 TCCTCTCTCTCTCTCC 315
      :||:|:|:|:|:|:|:|:|
Db 1 UCCUUCUCAUCCUCCUCC 17

RESULT 2330
US-10-310-914A-1287823
; Sequence 1287823, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1287823
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1287823

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 647 GCAGCGCGCAGCAGCGC 663
      |||:|:|:|:|:|:|:|
Db 2 GCGGCGCGCAGCAGCGC 18

RESULT 2331
US-10-310-914A-1345352/c
; Sequence 1345352, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1345352
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1345352

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 287 ACCACTCTCTCTCTCTT 303
      |||:|:|:|:|:|:|:|
Db 18 ACCTCTCTCTCTCTCTT 2

RESULT 2332
US-10-310-914A-1375798/c
; Sequence 1375798, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1375798
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1375798

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 258 CGCCACCCCTCTCTGCC 274
      |||:|:|:|:|:|:|:|
Db 18 CGCCACCCCTCTCTGCC 2

RESULT 2333
US-10-310-914A-159503
; Sequence 159503, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 159503
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-159503

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 1.3e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGG 222
      |||:|:|:|:|:|:|:|
Db 2 GGUGGGGUGGGGUGGG 18

RESULT 2334
US-10-310-914A-159504
; Sequence 159504, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 159504
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; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-159504

Query Match      0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 1.3e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGGTGGG 222
    |||||:||||:||||
Db 2 GGUGGGGUGGGGUGGGG 18

RESULT 2335
US-10-310-914A-163377/c
; Sequence 163377, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 163377
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-163377

Query Match      0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 649 AGCGGAGCAGCGGCGG 665
    |||||:|||||:||||
Db 17 AGCAGCAGCAGCGGCGG 1

RESULT 2336
US-10-310-914A-172103/c
; Sequence 172103, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 172103
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-172103

Query Match      0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 226 AGCAGGGGCGAGGCCA 242
    |||||:|||||:||||
Db 17 AGCAGGGGCGTAGCCA 1

RESULT 2337
US-10-310-914A-182480
; Sequence 182480, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 182480
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-182480

Query Match      0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGGCGGCGGCGC 675
    |||||:|||||:||||
Db 2 GCGGCGGCGGCGGCGC 18

RESULT 2338
US-10-310-914A-189625/c
; Sequence 189625, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 189625
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-189625

Query Match      0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1089 CTTTGCTCTCTCTTCT 1105
    |||||:|||||:||||
Db 17 CTTTGCTCTCTCTTCT 1

RESULT 2339
US-10-310-914A-192082/c
; Sequence 192082, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 192082
; LENGTH: 18
```



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; ORGANISM: Human
US-10-310-914A-202985

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 1.3e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 209 GGGTGGGGTGGGGG 225
      |||||:||||:|||||
Db 2 GGGGUGGGGUGGGUGG 18

RESULT 2345
US-10-310-914A-209520/c
; Sequence 209520, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 209520
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-209520

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 267 CTCCTGCTCTCTCTCC 283
      |||||:|||||:|||||
Db 18 CTCCTCCCTCTCTCTCC 2

RESULT 2346
US-10-310-914A-215665
; Sequence 215665, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 215665
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-215665

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 70.6%; Pred. No. 1.3e+03;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 273 CTCCTCTCTCTCTCACC 289
      |||||:||||:|||||
Db 2 CCUCCUCCUCCUCCUCC 18

RESULT 2347
US-10-310-914A-218724
; Sequence 218724, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 218724
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-218724

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 64.7%; Pred. No. 1.3e+03;
Matches 11; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 288 CCACCTCTCTCTCTTTC 304
      |||||:||||:|||||
Db 1 CCUCCUCCUCCUCCUCC 17

RESULT 2348
US-10-310-914A-219250
; Sequence 219250, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 219250
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-219250

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 1.3e+03;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 632 GCGGCGGTCTCAGGCAGC 648
      |||||:||||:|||||
Db 1 GCGGCGGUGAAGGCAGC 17

RESULT 2349
US-10-310-914A-221984
; Sequence 221984, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 221984
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-221984
```



US-10-310-914A-221984

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 1.3e+03;  
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 208 GGGGGTGGGGTGGGGG 224  
|||||:|||||  
Db 2 GGGGGGGGGGGGGGGG 18

RESULT 2350

US-10-310-914A-223360/c  
; Sequence 223360, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 223360  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-223360

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 897 CGGGGGCGGGGTGGCG 913  
|||||:|||||  
Db 18 CGGGGGCGGGGGCGCG 2

RESULT 2351

US-10-310-914A-230463/c  
; Sequence 230463, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 230463  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-230463

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 208 GGGGGTGGGGTGGGGG 224  
|||||:|||||  
Db 18 GGGGCTGGGGTGGGGG 2

RESULT 2352

US-10-310-914A-232272  
; Sequence 232272, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 232272  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-232272

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 58.8%; Pred. No. 1.3e+03;  
Matches 10; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 289 CACCTCCTCTCTCTCT 305  
|||:|||||  
Db 2 CUCCUCCUCCUCCUCCU 18

RESULT 2353

US-10-310-914A-241744  
; Sequence 241744, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 241744  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-241744

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 1.3e+03;  
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 215 GGGTGGGGGGAGGCAG 231  
|||||:|||||  
Db 1 GGGUGGGGGGAGGCGG 17

RESULT 2354

US-10-310-914A-259899/c  
; Sequence 259899, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 259899  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-259899

```
Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 649 AGCGGCGGAGCGGCGG 665
      ||||| ||||| |||||
Db 17 AGCGGCGGAGCGGCGG 1

RESULT 2355
US-10-310-914A-267873
; Sequence 267873, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 267873
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-267873

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGGCGGCGGCGG 675
      || ||||| ||||| |||||
Db 1 GCAGCGGCGGCGGCGG 17

RESULT 2356
US-10-310-914A-270613/c
; Sequence 270613, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 270613
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-270613

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 274 CTCCTCTCTCTCCACCA 290
      ||||| ||||| |||||
Db 17 CTCCTCTCTCTCTCCA 1

RESULT 2357
US-10-310-914A-282239
; Sequence 282239, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 282239
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-282239

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 58.8%; Pred. No. 1.3e+03;
Matches 10; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 289 CACCTCTCTCTCTTCT 305
      ||||| ||||| |||||
Db 2 CUCCUCCUCCUCCUCCU 18

RESULT 2358
US-10-310-914A-288986/c
; Sequence 288986, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 288986
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-288986

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGGCGGCGG 668
      ||||| ||||| |||||
Db 18 GGCAGCAGCGGCGGCGG 2

RESULT 2359
US-10-310-914A-288987/c
; Sequence 288987, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 288987
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-288987
```

```
Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 652 GCGCAGCAGCGCGCGCG 668
DB 18 GCGCGCAGCGCGCGCG 2

RESULT 2360
US-10-310-914A-288996/c
; Sequence 288996, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 288996
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-288996

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 652 GCGCAGCAGCGCGCGCG 668
DB 17 GCGCGCAGCGCGCGCG 1

RESULT 2361
US-10-310-914A-301388/c
; Sequence 301388, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 301388
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-301388

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 647 GCAGCGCGCAGCAGCGC 663
DB 18 GCAGCGCGCAGCAGCAGC 2

RESULT 2362
US-10-310-914A-301520/c
; Sequence 301520, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
```

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; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 301520
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-301520

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGCGCGCGCGCGCGC 675
DB 18 GCGCGCGCGCGCGCGC 2

RESULT 2363
US-10-310-914A-313809/c
; Sequence 313809, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 313809
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-313809

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGCG 672
DB 17 GCAGCGCGCGCGCGCAGG 1

RESULT 2364
US-10-310-914A-319004
; Sequence 319004, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 319004
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-319004

Query Match          0.5%; Score 15.4; DB 1; Length 18;
```

Best Local Similarity 82.4%; Pred. No. 1.3e+03;  
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 207 GGGGGTGGGTGGGG 223  
|||:||||:||||  
Db 2 GGAGGGUGGGUGGGG 18

## RESULT 2365

US-10-310-914A-319616/c  
; Sequence 319616, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 319616

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-319616

Query Match 0.5%; Score 15.4; DB 1; Length 18;

Best Local Similarity 94.1%; Pred. No. 1.3e+03;

Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 291 CCTCCTCTCTCTCTCG 307  
|||||:|||||:||||  
Db 17 CCTCCTCTCTCTCTCG 1

## RESULT 2366

US-10-310-914A-324661

; Sequence 324661, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 324661

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-324661

Query Match 0.5%; Score 15.4; DB 1; Length 18;

Best Local Similarity 94.1%; Pred. No. 1.3e+03;

Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGGGCG 666  
|||||:|||||:||||  
Db 1 GCGGCAGCAGCGGGCG 17

## RESULT 2367

US-10-310-914A-333296/c

; Sequence 333296, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 333296  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-333296

Query Match 0.5%; Score 15.4; DB 1; Length 18;

Best Local Similarity 94.1%; Pred. No. 1.3e+03;

Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 209 GGGTGGGTGGGGGG 225  
|||||:|||||:||||  
Db 18 GTGTGGGTGGGGGG 2

## RESULT 2368

US-10-310-914A-333299/c

; Sequence 333299, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 333299

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-333299

Query Match 0.5%; Score 15.4; DB 1; Length 18;

Best Local Similarity 94.1%; Pred. No. 1.3e+03;

Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 211 GGTGGGTGGGGGAG 227  
|||||:|||||:||||  
Db 17 GGTGGGTGGGGGGG 1

## RESULT 2369

US-10-310-914A-343591

; Sequence 343591, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 343591

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-343591

Query Match 0.5%; Score 15.4; DB 1; Length 18;

Best Local Similarity 82.4%; Pred. No. 1.3e+03;

```
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 206 GCGGGGTGGGGTGGG 222
    ||| |||:||||:||||
Db 1 GGGUGGGUGGGUGGG 17

RESULT 2370
US-10-310-914A-359578/c
; Sequence 359578, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuza
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 359578
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-359578

Query Match 0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACCTCT 2268
    ||| ||| ||| ||| |||
Db 18 CAGTGTCTCACCTCT 2

RESULT 2371
US-10-310-914A-381571/c
; Sequence 381571, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuza
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 381571
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-381571

Query Match 0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGACGACG 660
    ||| ||| ||| ||| |||
Db 18 GCAGCAGCGGACGACG 2

RESULT 2372
US-10-310-914A-426653
; Sequence 426653, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuza
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
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; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 426653
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-426653

Query Match 0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 652 GCGCAGCGGCGGCGG 668
    ||| ||| ||| ||| |||
Db 2 GCGCAGCGGCGGCGG 18

RESULT 2373
US-10-310-914A-434461
; Sequence 434461, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuza
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 434461
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-434461

Query Match 0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 76.5%; Pred. No. 1.3e+03;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 276 CCTCTCTCTCCACCAC 292
    ||| ||| ||| ||| |||
Db 2 CCUCCUCCUCCACCACGC 18

RESULT 2374
US-10-310-914A-444186
; Sequence 444186, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuza
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 444186
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-444186

Query Match 0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 76.5%; Pred. No. 1.3e+03;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

QY 2654 CCTGTTTCCACCC 2670  
|||:|:|||||  
Db 2 CCUGCUUCCACCC 18

RESULT 2375  
US-10-310-914A-450686  
; Sequence 450686, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 450686  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-450686

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGCGCGCGCGGCG 675  
|||||:|||||  
Db 2 GCGCGCGCGCGGUGGC 18

RESULT 2376  
US-10-310-914A-452200  
; Sequence 452200, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 452200  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-452200

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 70.6%; Pred. No. 1.3e+03;  
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 269 CCTGCTCTCTCTCTCT 285  
|||:|||||:|  
Db 2 CCCGCCUCCUCCUCCUC 18

RESULT 2377  
US-10-310-914A-456446/c  
; Sequence 456446, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 456446  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-456446

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGC 660  
|||||:|||||  
Db 18 GCAGCAGCAGCAGCAGC 2

RESULT 2378  
US-10-310-914A-457438/c  
; Sequence 457438, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 457438  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-457438

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2537 ACATATATCCACATATA 2553  
|||||:|||||  
Db 17 ACATATATACACATATA 1

RESULT 2379  
US-10-310-914A-477967/c  
; Sequence 477967, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 477967  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-477967

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 210 GGGTGGGTGGGGGGA 226  
||| ||||| ||||| |||||  
Db 18 GCGGGGGGTGGGGGGGA 2

## RESULT 2380

US-10-310-914A-494556/c  
; Sequence 494556, Application US/10310914A  
; Publication No. US20060003322A1

## GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 494556  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-494556

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGGCGGGCGGGGCG 675  
||| ||||| ||||| |||||  
Db 17 GCCGGCGGGCGGGGCG 1

## RESULT 2381

US-10-310-914A-495449/c  
; Sequence 495449, Application US/10310914A  
; Publication No. US20060003322A1

## GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 495449  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-495449

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 273 CCTCTCTCTCTCCACC 289  
||| ||||| ||||| |||||  
Db 18 CCTCTCTCTCTCTCC 2

## RESULT 2382

US-10-310-914A-503546/c  
; Sequence 503546, Application US/10310914A  
; Publication No. US20060003322A1

## GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 503546  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-503546

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 652 GGCAGCAGCGCGGCGG 668  
||| ||||| ||||| |||||  
Db 17 GCGGCAGCGGCGGCGG 1

## RESULT 2383

US-10-310-914A-504163  
; Sequence 504163, Application US/10310914A  
; Publication No. US20060003322A1

## GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 504163  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-504163

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 94.1%; Pred. No. 1.3e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGGCGGGCGGGGCG 675  
||| ||||| ||||| |||||  
Db 2 GCGGGCGGGCGGGGCGC 18

## RESULT 2384

US-10-310-914A-512314  
; Sequence 512314, Application US/10310914A  
; Publication No. US20060003322A1

## GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 512314  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-512314

Query Match 0.5%; Score 15.4; DB 1; Length 18;  
Best Local Similarity 82.4%; Pred. No. 1.3e+03;  
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 206 GCGGGGGTGGGGTGGG 222

[illegible]



Db 18 TCCAGTGCCTACACC 2

RESULT 2390

US-10-310-914A-555713

; Sequence 555713, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 555713

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-555713

Query Match 0.5%; Score 15.4; DB 1; Length 18;

Best Local Similarity 64.7%; Pred. No. 1.3e+03;

Matches 11; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 1741 TGGTCAGGAATGCTGGT 1757

:||:|||||:|:|:

Db 2 UGGUCAGGCAUGCUGGU 18

RESULT 2391

US-10-310-914A-561312

; Sequence 561312, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 561312

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-561312

Query Match 0.5%; Score 15.4; DB 1; Length 18;

Best Local Similarity 64.7%; Pred. No. 1.3e+03;

Matches 11; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 2839 GGGGTCACTGCTTCACT 2855

||||:|:|:|:

Db 2 GGGGUCACUGAUAUCU 18

RESULT 2392

US-10-310-914A-564362/c

; Sequence 564362, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

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RESULT 2395
US-10-310-914A-649493/c
; Sequence 649493, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 649493
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-649493

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGG 225
Db 17 GGGGTGGGTGGGGTGG 1

RESULT 2396
US-10-310-914A-650524/c
; Sequence 650524, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 650524
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-650524

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 263 CCACCTCCTGCCTCTC 279
Db 18 CCACCTCCTGCCTCTC 2

RESULT 2397
US-10-310-914A-653240
; Sequence 653240, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2537 ACATATATGCACATATA 2553
Db 17 ACATATATACACATATA 1

RESULT 2398
US-10-310-914A-657827/c
; Sequence 657827, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 657827
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-657827

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2537 ACATATATGCACATATA 2553
Db 17 ACATATATACACATATA 1

RESULT 2399
US-10-310-914A-661058
; Sequence 661058, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 661058
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-661058

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 1.3e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGTGGGG 222
Db 1 GGGUGGGUGGGUGGGG 17
```

```
RESULT 2400
US-10-310-914A-676856/c
; Sequence 676856, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 676856
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-676856

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 659 GCGGCGGCGGCGGCGGC 675
Db 17 GCGGCGGCGGCGGCGGC 1

RESULT 2401
US-10-310-914A-677289/c
; Sequence 677289, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 677289
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-677289

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 181 GCCAACTCTTCCTGCTC 197
Db 17 GCCACCTCTTCCTGCTC 1

RESULT 2402
US-10-310-914A-686818
; Sequence 686818, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
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; SEQ ID NO 686818
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-686818

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 1.3e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 2213 TCCAGAAAGAGGCGAGT 2229
Db 2 UCCAGAAAGAGGCGAGU 18

RESULT 2403
US-10-310-914A-69205/c
; Sequence 69205, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 69205
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-69205

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 207 GGGGGGTGGGTGGGGG 223
Db 18 GGGGGGTGGGTGGGGG 2

RESULT 2404
US-10-310-914A-706286
; Sequence 706286, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 706286
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-706286

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 70.6%; Pred. No. 1.3e+03;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 266 CCTCTGCTCTCTCTC 282
Db 1 CCUCGCGCCUCCUCCCC 17
```

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RESULT 2405
US-10-310-914A-716728
; Sequence 716728, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 716728
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-716728

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 1.3e+03;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 661 GCGCGCGCGGGCGGCG 677
Db 1 GCGCGCGCGGGCGGCGUG 17

RESULT 2406
US-10-310-914A-718799
; Sequence 718799, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 718799
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-718799

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 1.3e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2381 AGCCAGAGGCTTAGGAA 2397
Db 2 ACCCAGAGGCUUAGGAA 18

RESULT 2407
US-10-310-914A-73933
; Sequence 73933, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 73933
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; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-73933

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGGCGGCGGG 672
Db 2 GCGCGCGGCGGCGGCGG 18

RESULT 2408
US-10-310-914A-743407
; Sequence 743407, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 743407
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-743407

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 64.7%; Pred. No. 1.3e+03;
Matches 11; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 290 ACCTCTCTCTCTCTCTC 306
Db 1 ACCUCCUCCUCCUCCUC 17

RESULT 2409
US-10-310-914A-745719/C
; Sequence 745719, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 745719
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-745719

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 271 TGCCTCTCTCTCTCTCCA 287
Db 17 TCCCTCTCTCTCTCTCCA 1

RESULT 2410
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US-10-310-914A-746456/c
; Sequence 746456, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 746456
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-746456

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 286 CACCACCTCCTCCTCCT 302
Db 18 CACCGCCTCCTCCTCCT 2

RESULT 2411
US-10-310-914A-762673/c
; Sequence 762673, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 762673
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-762673

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2479 ACTCTCAGGGCCAGAG 2495
Db 18 ACCCTCAGGGCCAGAG 2

RESULT 2412
US-10-310-914A-764842/c
; Sequence 764842, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 764842
; LENGTH: 18
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; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-764842

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 289 CACCTCCTCCTCCTCCT 305
Db 17 CTCCTCCTCCTCCTCCT 1

RESULT 2413
US-10-310-914A-764986/c
; Sequence 764986, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 764986
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-764986

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 293 TCCTCCTCCTCCTCCTC 309
Db 18 TCCTCCTCCTCCTCCTC 2

RESULT 2414
US-10-310-914A-769845/c
; Sequence 769845, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 769845
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-769845

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 658 AGCGCGCGCGCGGGG 674
Db 18 AGCGCGCGCGCGGAG 2

RESULT 2415
US-10-310-914A-792238/c
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; Sequence 792238, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 792238
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-792238

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 208 GGGGTGGGGTGGGGG 224
      ||||| ||||| ||||| |||||
Db 18 GGGGTGGGGTGGGGG 2

RESULT 2416
US-10-310-914A-800744
; Sequence 800744, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 800744
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-800744

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 208 GGGGTGGGGTGGGGG 224
      ||||| ||||| ||||| |||||
Db 18 GGGGTGGGGTGGGGG 2

RESULT 2417
US-10-310-914A-810438/c
; Sequence 810438, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 810438
; LENGTH: 18
; TYPE: RNA
US-10-310-914A-810438/c

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCAGCAGC 660
      ||||| ||||| ||||| |||||
Db 1 GCAGCAGCGCGCAGCGC 17

RESULT 2418
US-10-310-914A-820798
; Sequence 820798, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 820798
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-820798

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 209 GGGGTGGGGTGGGGG 225
      ||||| ||||| ||||| |||||
Db 17 GGGGTGGGGTGGGGG 1

RESULT 2419
US-10-310-914A-829586
; Sequence 829586, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 829586
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-829586

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 98.2%; Pred. No. 1.3e+03;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 661 GCGCGCGCGCGCGGTG 677
      ||||| ||||| ||||| |||||
Db 1 GCGCGCGCGCGCGGTG 17

RESULT 2420
US-10-310-914A-831618
; Sequence 831618, Application US/10310914A
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; ORGANISM: Human
US-10-310-914A-810438

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 209 GGGGTGGGGTGGGGG 225
      ||||| ||||| ||||| |||||
Db 17 GGGGTGGGGTGGGGG 1

RESULT 2418
US-10-310-914A-820798
; Sequence 820798, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 820798
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-820798

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 1.3e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 261 CACCACCTCTGCTCC 277
      ||||| ||||| ||||| |||||
Db 1 CACCACCTCTGCTCC 17

RESULT 2419
US-10-310-914A-829586
; Sequence 829586, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 829586
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-829586

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 1.3e+03;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 661 GCGCGCGCGCGCGGTG 677
      ||||| ||||| ||||| |||||
Db 1 GCGCGCGCGCGCGGTG 17

RESULT 2420
US-10-310-914A-831618
; Sequence 831618, Application US/10310914A
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; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 831618
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-831618

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 1.3e+03;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 214 GCGGTGGGGGGGAGGCA 230
      ||||| ||||| |||||
Db 2 GCGGUGGAGGGGAGGCA 18

RESULT 2421
US-10-310-914A-852910/c
; Sequence 852910, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 852910
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-852910

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGGGCGGGCGGC 675
      ||||| ||||| |||||
Db 17 GCGGCGGGCGGGCGGC 1

RESULT 2422
US-10-310-914A-881167
; Sequence 881167, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 881167
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-881167

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGGGCGGGCGGC 675
      ||||| ||||| |||||
Db 17 GCGGCGGGCGGGCGGC 1

RESULT 2423
US-10-310-914A-890720/c
; Sequence 890720, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 890720
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-890720

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 902 GCGGGGTGGGCGCAGG 918
      ||||| ||||| |||||
Db 18 GCGGGGTGGGCGCAGG 2

RESULT 2424
US-10-310-914A-910388
; Sequence 910388, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 910388
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-910388

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGGGCGGGCGGC 675
      ||||| ||||| |||||
Db 17 GCGGCGGGCGGGCGGC 1

RESULT 2425
US-10-310-914A-921975
; Sequence 921975, Application US/10310914A
; Publication No. US20060003322A1
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US-10-310-914A-881167

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 1.3e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2120 CCTGAGACGGTCAGGC 2136
      ||||| ||||| |||||
Db 2 CCCUGAGAUGCUCAGGC 18

RESULT 2423
US-10-310-914A-890720/c
; Sequence 890720, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 890720
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-890720

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 902 GCGGGGTGGGCGCAGG 918
      ||||| ||||| |||||
Db 18 GCGGGGTGGGCGCAGG 2

RESULT 2424
US-10-310-914A-910388
; Sequence 910388, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 910388
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-910388

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGGGCGGGCGGC 675
      ||||| ||||| |||||
Db 2 GCGGCGGGCGGGCGGC 18

RESULT 2425
US-10-310-914A-921975
; Sequence 921975, Application US/10310914A
; Publication No. US20060003322A1
```

```
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 921975
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-921975

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 70.6%; Pred. No. 1.3e+03;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 121 CACCTCCTGCTCCCT 137
Db 1 CACCUCUCCUCCCT 17

RESULT 2426
US-10-310-914A-924920
; Sequence 924920, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 924920
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-924920

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 82.4%; Pred. No. 1.3e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGGTGGG 222
Db 2 GGUGGGGUGGGUGGGG 18

RESULT 2427
US-10-310-914A-947620/c
; Sequence 947620, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 947620
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-947620
```

```
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 966495
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-966495

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 207 GGGGGTGGGGTGGGG 223
Db 17 GGAGGGTGGGGTGGGGG 1

RESULT 2428
US-10-310-914A-966495
; Sequence 966495, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 966495
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-966495

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGGCGGGCGGGCGG 675
Db 2 GCGGGCGGGCGGGCGG 18

RESULT 2429
US-10-310-914A-976548/c
; Sequence 976548, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 976548
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-976548

Query Match          0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 255 GGCGCGCCACCACCTCT 271
Db 17 GGCGCGCCACCACCT 1

RESULT 2430
US-10-310-914A-982537
; Sequence 982537, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
```



```
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 982537
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-982537

Query Match      0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 650 GCGGCGGAGCGGCGGC 666
Db 2 GCGGCGGAGCGGCGGC 18

RESULT 2431
US-10-310-914A-982556
; Sequence 985256, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 985256
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-985256

Query Match      0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGGCGGCGGCGGC 675
Db 2 GCGGCGGCGGCGGCGGC 18

RESULT 2432
US-10-310-914A-988860
; Sequence 988860, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 988860
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-988860
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Query Match      0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 1.3e+03;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 663 CGGCGGCGGCGGCTGTG 679
Db 1 CGGCGGCGGCGGCGGUG 17

RESULT 2433
US-10-857-780-487/c
; Sequence 487, Application US/10857780
; Publication No. US2005027043A1
; GENERAL INFORMATION:
; APPLICANT: ROTH, RICHARD B.
; APPLICANT: BRAUN, ANDREAS
; APPLICANT: KAMMERER, STEFAN M.
; APPLICANT: NELSON, MATTHEW ROBERTS
; APPLICANT: RENELAND, RIKARD HENRY
; APPLICANT: HOYAL-WRIGHTSON, CAROLYN R.
; TITLE OF INVENTION: METHODS FOR IDENTIFYING RISK OF BREAST CANCER AND TREATMENTS
; FILE OF INVENTION: THEREOF
; FILE REFERENCE: SEQ-4069-CP
; CURRENT APPLICATION NUMBER: US/10/857,780
; CURRENT FILING DATE: 2004-05-28
; PRIOR APPLICATION NUMBER: 10/723,681
; PRIOR FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/490,234
; PRIOR FILING DATE: 2003-07-24
; PRIOR APPLICATION NUMBER: 60/525,239
; PRIOR FILING DATE: 2003-11-25
; NUMBER OF SEQ ID NOS: 4962
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 487
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic primer
US-10-857-780-487

Query Match      0.5%; Score 15.4; DB 1; Length 18;
Best Local Similarity 94.1%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACCTGT 2268
Db 17 CAGTGGCTCACACCTGT 1

RESULT 2434
US-10-310-914A-1010144
; Sequence 1010144, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 1010144
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1010144

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

QY 655 AGCAGCGCGCGCGCG 671  
||| ||||| ||||| |||||  
Db 2 AGCGCGCGCGCGCGCG 18  
  
RESULT 2435  
US-10-310-914A-1012717/c  
; Sequence 1012717, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1012717  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1012717

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 267 CTCCTGCTCTCTCTCC 283  
||||| ||||| ||||| |||||  
Db 19 CTCCTGCTCTCTCTCC 3

RESULT 2436  
US-10-310-914A-1026511  
; Sequence 1026511, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1026511  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1026511

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 76.5%; Pred. No. 1.5e+03;  
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 2732 CTGGGACCTGCGCCCTCC 2748  
|:| |||||:|||||:|  
Db 3 CUGAGACCGCCGCCUCC 19

RESULT 2437  
US-10-310-914A-1029740/c  
; Sequence 1029740, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1029740  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1029740

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2074 CTCACCCAGCCCTGGC 2090  
||| ||||| ||||| |||||  
Db 18 CTCACCCAGCCCTGGC 2

RESULT 2438  
US-10-310-914A-1029741/c  
; Sequence 1029741, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1029741  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1029741

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2074 CTCACCCAGCCCTGGC 2090  
||| ||||| ||||| |||||  
Db 18 CTCACCCAGCCCTGGC 2

RESULT 2439  
US-10-310-914A-1036072/c  
; Sequence 1036072, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1036072  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1036072

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

Qy      207 GGGGGGTGGGGTGGGG 223
        |||||
Db      17  GGGGGGGGGGGTGGGG 1
        |||||

RESULT 2440
US-10-310-914A-1041433
; Sequence 1041433, Application US/10310914A
; Publication No. US2006000332A1

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```

; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kruzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1041433
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1041433

```

```

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 1.5e+03;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY      1562 TCCTGGCCCTGGGGTGTG 1578
      :||:||||:||||:|
Db       2 UCCUGGCCUGGGCGUG 18

RESULT 2441
US-10-310-914A-1041462
; Sequence 1041462, Application US/10310914A
; Publication No. US2006000322A1
; GENERAL INFORMATION:

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/ APPLICANT: Bent Wachur, Isaac
/ TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
/ TITLE OF INVENTION: uses thereof
/ FILE REFERENCE: 06087.0200.CPUS01
/ CURRENT APPLICATION NUMBER: US/10/310,914A
/ CURRENT FILING DATE: 2002-12-06
/ NUMBER OF SEQ ID NOS: 1388402
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 1041462
/ LENGTH: 19
/ TYPE: RNA
/ ORGANISM: Human
US-10-310-914A-1041462

```

```

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 1.5e+03;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY      1562 TCCTGGCCCTGGGTGTG 1578
      :||:||||:||||:|
Db       1 UCCUGGCCCTGGGCGUG 17

RESULT 2442
US-10-310-914A-1062169
; Sequence 1062169, Application US/10310914A
; Publication No. US2006000322A1
; GENERAL INFORMATION:
; APLICANT:

```

```

: APPLICANT: Snider, Kvazat
:
: TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
:
: TITLE OF INVENTION: uses thereof
:
: FILE REFERENCE: 06087.0200.CPUS01
:

```

```

; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1389402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1062169
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1062169

```

Query Match	0.5%	Score 15.4;	DB 1;	Length 19;
Best Local Similarity	88.2%	Pred. No. 1.5e+03;		
Matches 15;	Conservative 1;	Mismatches 1;	Indels	
Qy	661	GGCGGCGGCGGGGCTG	677	
Db	2	GGCGGCGGCGGCGG	18	

```

RESULT 2443
US-10-310-914A-1074393/c
; Sequence 1074393, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kuzvat
; TITLE OF INVENTION: Bioinformatically detected
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1074393
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1074393

```

```

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels

QY      637  GGTGCAGGCAGCAGCGG  653
Db       17  GGTGCAGGCAGCAGCAG  1

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RESULT 2444
US-10-310-914A-1077895/c
; Sequence 1077895, Application US/10310914A
; Publication No. US2006000322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detected
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1077895
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1077895

```

```

; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1095370
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
; US-10-310-914A-1095370

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACCTGT 2268
    ||||| ||||| |||||
DB 18 CAGTGGCTCACACCTGT 2

RESULT 2448
US-10-310-914A-1108586
; Sequence 1108586, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1108586
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
; US-10-310-914A-1108586

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 204 CCGGGGGGGTGGGGTGG 220
    || ||||| |||||
DB 3 CCUGGGGGGUGGGGUGG 19

RESULT 2449
US-10-310-914A-1112536/c
; Sequence 1112536, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1112536
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
; US-10-310-914A-1112536

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 293 TCCTCTCTCTTCGTC 309
    ||||| ||||| |||||

```

```
Db      19 TCCTCTCTCTTCTCTTC 3

RESULT 2450
US-10-310-914A-1119211/c
; Sequence 1119211, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1119211
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1119211

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2252 CAGTGTCTCACACCTGT 2268
Db      19 CAGTGTCTCACACCTGT 3

RESULT 2451
US-10-310-914A-1128251
; Sequence 1128251, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1128251
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1128251

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      213 TGGGGTGGGGGGGAGGC 229
Db      1 UGGGGUGGGUGGAGGC 17

RESULT 2452
US-10-310-914A-1128667
; Sequence 1128667, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1128667
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1128667

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      655 AGCAGCGCGCGCGGCGG 671
Db      2 AGCAGCGCGCGCGGCGG 18
```

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; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1128667
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1128667

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      2481 TCTCAGGCGCCAGAGCC 2497
Db      1 UCUCAGGUGCCAGAGCC 17

RESULT 2453
US-10-310-914A-1133531
; Sequence 1133531, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1133531
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1133531

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 1.5e+03;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2084 CCTGGCCTCGGCCCCC 2100
Db      1 CCCUGGCCCGGCCCCC 17

RESULT 2454
US-10-310-914A-1146240
; Sequence 1146240, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1146240
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1146240

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      655 AGCAGCGCGCGCGGCGG 671
Db      2 AGCAGCGCGCGGCGG 18
```

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RESULT 2455
US-10-310-914A-1146310
; Sequence 1146310, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1146310
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1146310
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 1.5e+03;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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```
QY 214 GGGGTGGGGGGAGGCA 230
|||||:|||||:|||||
Db 3 GGGGUGAGGGGAGGCA 19
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RESULT 2456
US-10-310-914A-1149544/c
; Sequence 1149544, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1149544
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1149544
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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QY 2252 CAGTGCTCACACTGT 2268
|||||:|||||:|||||
Db 18 CAGTGGCTCACACTGT 2
```

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RESULT 2457
US-10-310-914A-115352/c
; Sequence 115352, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
```

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; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 115352
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-115352
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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```
QY 212 GTGGGTGGGGGAGG 228
|||||:|||||:|||||
Db 19 GAGGGGTGGGGGAGG 3
```

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RESULT 2458
US-10-310-914A-1175127
; Sequence 1175127, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1175127
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1175127
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
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QY 2063 AGGAGCTGGCCTCACC 2079
|||||:|||||:|||||
Db 3 AGGAGCUGGCCUCUCC 19
```

```
RESULT 2459
US-10-310-914A-1185332/c
; Sequence 1185332, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1185332
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1185332
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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```
QY 267 CTCCTGCCTCCTCTCC 283
|||||:|||||:|||||
Db 19 CTCCTGCCTCCTCTCC 3
```

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RESULT 2460
US-10-310-914A-1185372/c
; Sequence 1185372, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1185372
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1185372

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 267 CTCCTGCCTCCTCTCC 283
Db 18 CTCCTGCCTCGGCTCC 2

RESULT 2461
US-10-310-914A-1190536/c
; Sequence 1190536, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1190536
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1190536

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACCTGT 2268
Db 18 CAGTGGCTCACACCTGT 2

RESULT 2462
US-10-310-914A-1198869
; Sequence 1198869, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
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; SEQ ID NO 1198869
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1198869

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 64.7%; Pred. No. 1.5e+03;
Matches 11; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 290 ACCTCCTCCTCTTCTC 306
Db 1 ACCUCCUCCUCCUCCUC 17

RESULT 2463
US-10-310-914A-1220411
; Sequence 1220411, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1220411
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1220411

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 981 AGGAGGCTCTGGCCCTG 997
Db 2 AGGAGGCCUCCGCCUCCUG 18

RESULT 2464
US-10-310-914A-1258168
; Sequence 1258168, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1258168
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1258168

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 58.8%; Pred. No. 1.5e+03;
Matches 10; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 289 CACCTCCTCCTCTTCT 305
Db 1 CACCUCCUCCUCCUCCUC 17
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RESULT 2465
US-10-310-914A-1263737/c
; Sequence 1263737, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1263737
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1263737

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 293 TCCTCCTCCTTCGTC 309
Db 19 TCCTCCTCCTTCCTTC 3

RESULT 2466
US-10-310-914A-1283283/c
; Sequence 1283283, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1283283
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1283283

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2661 TCCCCACCCCTCTTCC 2677
Db 17 TCCCCACCCCTCTTCC 1

RESULT 2467
US-10-310-914A-1295098/c
; Sequence 1295098, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1295098
```

```
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1295098

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2093 CGGCCCCCACCCTGAA 2109
Db 19 CGGCCCCCACCCTGCA 3

RESULT 2468
US-10-310-914A-1308419/c
; Sequence 1308419, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1308419
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1308419

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGCTTCACACCTGT 2268
Db 18 CAGTGGCTCACACCTGT 2

RESULT 2469
US-10-310-914A-1316808
; Sequence 1316808, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1316808
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1316808

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGCGCGCGGCGC 675
Db 1 GCGGCGCGCGCGGCGC 17

RESULT 2470
```



```
US-10-310-914A-1335542
; Sequence 1335542, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1335542
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1335542

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGGCGGGCGGGCGGC 675
Db      3 GCGGGCGGGCGGGCGGC 19

RESULT 2471
US-10-310-914A-1335563
; Sequence 1335563, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1335563
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1335563

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2084 CCCTGGCTCGGGCCCC 2100
Db      1 CCCUGGCCCCGGCCCC 17

RESULT 2472
US-10-310-914A-1342487
; Sequence 1342487, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1342487
; LENGTH: 19
```

```
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1342487

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 1.5e+03;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 895 GACGGGGCGGGGGTGG 911
Db      2 GACGGGGCGGGGGUGG 18

RESULT 2473
US-10-310-914A-1355556/c
; Sequence 1355556, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1355556
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1355556

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACCTGT 2268
Db      18 CAGTGGCTCACACCTGT 2

RESULT 2474
US-10-310-914A-1367131
; Sequence 1367131, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1367131
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1367131

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGGCGGGCGGGCGGC 675
Db      3 GCGGGCGGGCGGGCGGC 19

RESULT 2475
US-10-310-914A-1375799/c
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; Sequence 1375799, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1375799  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1375799

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 258 CGCCACCACCTCTGCG 274  
||||| |||||||

Db 18 CGCCACCCCTCTGCG 2

## RESULT 2476

US-10-310-914A-1378069/c  
; Sequence 1378069, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1378069  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1378069

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACCTGT 2268  
||||| |||||||

Db 18 CAGTGGCTCACCTGT 2

## RESULT 2477

US-10-310-914A-1386500/c  
; Sequence 1386500, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1386500  
; LENGTH: 19  
; TYPE: RNA

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

; ORGANISM: Human  
US-10-310-914A-1386500

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCAGCAGC 660  
||||| |||||||

Db 19 GCAGCAGCGCAGCAGC 3

## RESULT 2478

US-10-310-914A-146906/c  
; Sequence 146906, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 146906  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-146906

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2537 ACATATATGCACATATA 2553  
||||| |||||||

Db 17 ACATATATGCACATATA 1

## RESULT 2479

US-10-310-914A-146952/c  
; Sequence 146952, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 146952  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-146952

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2537 ACATATATGCACATATA 2553  
||||| |||||||

Db 19 ACATATATGCACATATA 3

## RESULT 2480

US-10-310-914A-159518  
; Sequence 159518, Application US/10310914A

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; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 159518
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-159518

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 206 GCGGGGGTGGGGGGG 222
      |||||:||||:||||
Db 3 GCGGGGGGGGGUGGGG 19

RESULT 2481
US-10-310-914A-161673/c
; Sequence 161673, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 161673
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-161673

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACCTGT 2268
      ||||| ||||| |||||
Db 18 CAGTGGCTCACACCTGT 2

RESULT 2482
US-10-310-914A-167327
; Sequence 167327, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 167327
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human

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US-10-310-914A-167327

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGGGGCGGGGGGC 675
      ||||| ||||| |||||
Db 3 GCGGGGGCGGGGGGC 19

RESULT 2483
US-10-310-914A-171434
; Sequence 171434, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 171434
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-171434

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2481 TCTCAGGGCCAGAGCC 2497
      :||:||||| |||||
Db 1 UCUCAGGGCCAGAGCC 17

RESULT 2484
US-10-310-914A-180994/c
; Sequence 180994, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 180994
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-180994

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGC 660
      ||||| ||||| |||||
Db 19 GCAGCAGCAGCAGCAGC 3

RESULT 2485
US-10-310-914A-182848
; Sequence 182848, Application US/10310914A
; Publication No. US20060003322A1

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; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 182848
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-182848

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGCGCGCGGGGC 675
Db 3 GCGGCGCGCGCGGGGC 19

RESULT 2486
US-10-310-914A-189335/c
; Sequence 189335, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 189335
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-189335

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 267 CTCCTGCTCTCTCTCC 283
Db 19 CTCCTGCTCTCTCTCC 3

RESULT 2487
US-10-310-914A-191776
; Sequence 191776, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 191776
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-191776
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Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGCGCGCGGGGC 675
Db 1 GCGGCGCGCGCGGGGC 17

RESULT 2488
US-10-310-914A-219184
; Sequence 219184, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 219184
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-219184

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGCGCGCGGGGC 675
Db 3 GCGGCGCGCGCGGGGC 19

RESULT 2489
US-10-310-914A-219247
; Sequence 219247, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 219247
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-219247

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGCGCGCGGGGC 675
Db 1 GCGGCGCGCGCGGGGC 17

RESULT 2490
US-10-310-914A-219248
; Sequence 219248, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
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; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 219248
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-219248

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 1.5e+03;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 631 GCGGGCGGTGCAGGCAG 647
      |||||:|||||
Db 3 GCGGGCGGUGAAGGCAG 19

RESULT 2491
US-10-310-914A-223361/c
; Sequence 223361, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 223361
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-223361

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 897 CGGGCGGGGGTGGCG 913
      |||||:|||||
Db 18 CGGGCGGGGGCGGGCG 2

RESULT 2492
US-10-310-914A-223666/c
; Sequence 223666, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 223666
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-223666
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Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACCTGT 2268
      |||||:|||||
Db 18 CAGTGGCTCACACCTGT 2

RESULT 2493
US-10-310-914A-226066
; Sequence 226066, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 226066
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-226066

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGGCGGGGGGGCG 675
      |||||:|||||
Db 3 GCGGGCGGGGGGGCG 19

RESULT 2494
US-10-310-914A-250244
; Sequence 250244, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 250244
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-250244

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGGCGGGGGGGCG 675
      |||||:|||||
Db 1 GCGGGCGGGGGGGCG 17

RESULT 2495
US-10-310-914A-256329/c
; Sequence 256329, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
```

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; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 256329
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-256329

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACCTCT 2268
    ||||| ||||| ||||| |||||
Db 18 CAGTGGCTCACACCTGT 2

RESULT 2496
US-10-310-914A-267938
; Sequence 267938, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 267938
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-267938

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGCGCGCGGGGC 675
    ||||| ||||| ||||| |||||
Db 3 GCAGCGCGCGCGGGGC 19

RESULT 2497
US-10-310-914A-274518/c
; Sequence 274518, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 274518
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-274518

Query Match          0.5%; Score 15.4; DB 1; Length 19;
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```
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1970 CCAGCCCCCTCCCGG 1986
    ||||| ||||| ||||| |||||
Db 18 CCAGTCCCCCTGCCCGG 2

RESULT 2498
US-10-310-914A-279867/c
; Sequence 279867, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 279867
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-279867

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 206 GCGGCGCGCGGTGGG 222
    ||||| ||||| ||||| |||||
Db 17 GGTGGCGGTGGGTGGG 1

RESULT 2499
US-10-310-914A-309744
; Sequence 309744, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 309744
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-309744

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 627 GGATGGCGCGGTGCAG 643
    ||||| ||||| ||||| |||||
Db 2 GGAUGCGCAGCGGUGCAG 18

RESULT 2500
US-10-310-914A-324137/c
; Sequence 324137, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
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; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 324137
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-324137

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACCTGT 2268
    ||||| ||||| ||||| |||||
Db 18 CAGTGGCTCACACCTGT 2

RESULT 2501
US-10-310-914A-343437
; Sequence 343437, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 343437
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-343437

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGGTGGG 222
    ||||| ||||| |||||
Db 3 GGGUGGGUGGGUGGGG 19

RESULT 2502
US-10-310-914A-343590
; Sequence 343590, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 343590
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-343590

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGGTGGG 222
    ||||| ||||| |||||
Db 3 GGGUGGGUGGGUGGGG 19

RESULT 2503
US-10-310-914A-344613/c
; Sequence 344613, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 344613
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-344613

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 269 CCTGCTCTCTCTCTCTC 285
    ||||| ||||| ||||| |||||
Db 18 CCTTCTCTCTCTCTCTC 2

RESULT 2504
US-10-310-914A-355986/c
; Sequence 355986, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 355986
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-355986

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGGTGGG 222
    ||||| ||||| |||||
Db 17 GAGGGGGTGGGGTGGG 1

RESULT 2505
US-10-310-914A-359579/c
; Sequence 359579, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
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; TITLE OF INVENTION:  uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 359579
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-359579

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Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. NO. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy	2252	CAGTGTCTCACACCTGT	2268
Db	18	CAGTGGCTCACACCTGT	2

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RESULT 2506
US-10-310-914A-363929/c
; Sequence 363929, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kvurac
; TITLE OF INVENTION: Bioinformatically de
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,91
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 363929
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-363929

```

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2061 GGAGGAGCTGGCCTCA 2077  
 Db 19 GGACGGAGCTGGCCTCA 3

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RESULT 2507
US-10-310-914A-402953/c
; Sequence 402953, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shitzer, Kvuzat
; TITLE OF INVENTION: Bioinformatically de
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPU501
; CURRENT APPLICATION NUMBER: US/10/310,914
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatencIn version 3.3
; SEQ ID NO 402953
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-402953

```

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY	2252	CAGTGTCTCACACTGT	2268
Db	18	CAGTGGCTCACACTGT	2

RESULT 2508  
US-10-310-914A-416089  
; Sequence 416089, Application US/10310914A  
; Publication No. US2006000332421

Query Match	0.5%	Score 15.4	DB 1	Length 19
Best Local Similarity	94.1%	Pred. No. 1.5e+03		
Matches 16	Conservative	0	Mismatches 1	Indels 0
Gaps				

QY 657 CAGCGGCGCGCGGGG 673  
Db 1 CGCGGCGCGCGGGG 17

```

RESULT 2509
US-10-310-914A-416116
; Sequence 416116, Application US/10310914A
; Publication No. US2006000322A1
; GENERAL INFORMATION:
; APPLICANT: Bentuch, Isaac
; APPLICANT: Shiler, Knyazat
; TITLE OF INVENTION: Bioinformatically deter
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: Patent in version 3.3
; SEQ ID NO 416116
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-416116

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Query Match	0.5%	Score 15.4	DB 1	Length 19
Best Local Similarity	94.1%	Pred. No. 1.5e+03		
Matches 16	Conservative	0	Mismatches 1	Indels 0
Gaps 0				

Qy 659 GCGCGCGCGCGCGCGG 675  
Db 3 GCGCGCGCGCGCGCGG 19

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RESULT 2510
US-10-310-914A-42402
; Sequence 42402, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlizer, Kvuzat
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically d
; TITLE OF INVENTION: uses thereof
;

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; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 42402  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-42402

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGGCGGGCGGGCGGC 675  
DB 1 GCGGGCGGGCGGGCGGC 17

RESULT 2511  
US-10-310-914A-432029  
; Sequence 432029, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 432029  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-432029

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGGCGGGCGGGCGGC 675  
DB 3 GCGGGCGGGCGGGCGGC 19

RESULT 2512  
US-10-310-914A-434468  
; Sequence 434468, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 434468  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-434468

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 70.6%; Pred. No. 1.5e+03;  
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 270 CTGCCTCTCTCTCTCC 286  
DB 2 CUGCCUCCUCCUCCACC 18

RESULT 2513  
US-10-310-914A-436070/c  
; Sequence 436070, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 436070  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-436070

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 643 GGCAGCAGCGGCAGCAG 659  
DB 18 GGCAGCAGCGGCAGCAG 2

RESULT 2514  
US-10-310-914A-449019/c  
; Sequence 449019, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 449019  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-449019

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 270 CTGCCTCTCTCTCTCC 286  
DB 17 CTCCCTCTCTCTCTCC 1

RESULT 2515  
US-10-310-914A-450689  
; Sequence 450689, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 450689  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-450689

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGGCGGGCGGGGCG 675  
Db 3 GCGGGCGGGCGGGGCG 19

RESULT 2516  
US-10-310-914A-456421/c  
; Sequence 456421, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 456421  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-456421

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAGC 660  
Db 19 GCAGCAGCAGCAGCAGC 3

RESULT 2517  
US-10-310-914A-468677/c  
; Sequence 468677, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 468677  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-468677

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1006 TCCGGGGGTGCGGTGG 1022

Db 19 TCCGGGGGTGCGGTGG 3

RESULT 2518  
US-10-310-914A-477952/c  
; Sequence 477952, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 477952  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-477952

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 210 GCGTGGGTGGGGGGA 226  
Db 19 GCGGGGGGTGGGGGGA 3

RESULT 2519  
US-10-310-914A-479180/c  
; Sequence 479180, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 479180  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-479180

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACCTGT 2268  
Db 18 CAGTGGCTCACACCTGT 2

RESULT 2520  
US-10-310-914A-487763/c  
; Sequence 487763, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 487763  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-487763

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 661 GCGCGCGCGCGGGGTG 677  
|||  
Db 18 GCGCGCGCGCGGGGTG 2

RESULT 2521  
US-10-310-914A-495400/c  
; Sequence 495400, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 495400  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-495400

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 288 CCACCTCTCTCTCTTC 304  
|||  
Db 18 CCTCTCTCTCTCTTC 2

RESULT 2522  
US-10-310-914A-497285/c  
; Sequence 497285, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 497285  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-497285

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 208 GCGGTGGGTGGGGG 224  
|||

Db 19 GCGGTGGGTGGGGG 3

RESULT 2523  
US-10-310-914A-504140  
; Sequence 504140, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 504140  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-504140

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGCGCGCGCGGGGC 675  
|||  
Db 3 GCGCGCGCGCGGGGC 19

RESULT 2524  
US-10-310-914A-508579/c  
; Sequence 508579, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 508579  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-508579

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 266 CCTCTGCTCTCTCTC 282  
|||  
Db 18 CCTCTGCTCTCTCTC 2

RESULT 2525  
US-10-310-914A-513759/c  
; Sequence 513759, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06

```

; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 513759
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-513759

```

```
Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

Qy 2537 ACATATATGCACATATA 2553  
|||||  
Db 17 ACATATATACACATATA 1

```

RESULT 2526
US-10-310-914A-521637/c
; Sequence 521637, Application US/10310914A
; Publication No. US2006000332A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kyozaet
; TITLE OF INVENTION: Bioinformatically de
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,91
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 521637
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-521637

```

Query Match	0.5%	Score 15.4;	DB 1;	Length 19;
Best Local Similarity	94.1%;	Pred. No. 1.5e+03;		
Matches 16;	Conservative	0;	Mismatches 1;	Indels 0;
Gaps	0;			

Qy 667 GGCGGGGCTGTGAGTT 683  
db 19 GGCGGGGCTGTGAGTT 3

```

RESULT 2527
US-10-310-914A-524534/c
; Sequence 524534, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kyzrat
; TITLE OF INVENTION: Bioinformatically deter
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 524534
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-524534

```

```

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16: Conservative 0; Mismatches 1; Indels 0; Gaps 0

```

Qy	2252	CAGTGTCTCACACCTGT	2268
Db	18	CAGTGGCTCACACCTGT	2

```

RESULT 2528
US-10-310-914A-526119/c
; Sequence 526119, Application US/10310914A
; Publication No. US2006000322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kourat
; TITLE OF INVENTION: Bioinformatically detected
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; CURRENT APPLICATION NUMBER: US/10/310,914A
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 526119
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-526119

```

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0

Qy 273 CCTCCTCCTCCTCCTCACC 289  
p6 19 CCTCCTCCTCCTCCTCCTCC 3

```

RESULT 2529
US-10-310-914A-564612
: Sequence 564612, Application US/10310914A
: Publication No. US2006000322A1
: GENERAL INFORMATION:
: APPLICANT: Bentwich, Isaac
: APPLICANT: Shiler, Kuzrat
: TITLE OF INVENTION: Bioinformatically deter
: TITLE OF INVENTION: uses thereof
: FILE REFERENCE: 06087.0200.CPUS01
: CURRENT APPLICATION NUMBER: US/10/310,914A
: CURRENT FILING DATE: 2002-12-06
: NUMBER OF SEQ ID NOS: 1388402
: SOFTWARE: PatentIn version 3.3
: SEQ ID NO 564612
: LENGTH: 19
: TYPE: RNA
: ORGANISM: Human
: US-10-310-914A-564612

```

Query Match	0.5%	Score 15.4;	DB 1;	Length 19;
Best Local Similarity	94.1%;	Pred. No. 1.5e+03;		
Matches 16:	Conservative	0;	Mismatches 1;	Indels 0;
				Gaps 0

Qy 654 CAGCAGCGGCGGGCG 670  
||| ||| ||| ||| |||  
pb 3 CAGCGGCGGGCGGGCG 19

```

RESULT 2530
US-10-310-914A-565683/c
; Sequence 565683; Application US/10310914A
; Publication No. US2006000322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically deter
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ IDS NOS: 1388402

```

Dbb 18 CAGTGGCTCACACCTGT 2

: NUMBER OF SEQ ID NOS: 1388402

Db 18 CAGTGGCTCACACCTGT 2

; SEQ ID NO 585802  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-585802

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 70.6%; Pred. No. 1.5e+03;  
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 2650 CCACCCCTGTTCCCA 2666  
|||||:|:|:|:|:|:|  
Db 3 CCACGCCUGUCCCCA 19

## RESULT 2536

US-10-310-914A-588720  
; Sequence 588720, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 588720  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-588720

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 70.6%; Pred. No. 1.5e+03;  
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 987 CTCTGGCCCTGTGTGTG 1003  
|:|:|:|:|:|:|:|:|  
Db 3 CUCUGGCCCGGGGCGUG 19

## RESULT 2537

US-10-310-914A-601474/c  
; Sequence 601474, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 601474  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-601474

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACCTGT 2268  
|||||:|:|:|:|:|:|  
Db 18 CAGTGGCTCACACCTGT 2

## RESULT 2538

US-10-310-914A-62876  
; Sequence 62876, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 62876  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-62876

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGGCGGGGCGGC 675  
|||||:|:|:|:|:|:|  
Db 3 GCGGCGGCGGGGCGGGC 19

## RESULT 2539

US-10-310-914A-649507/c  
; Sequence 649507, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 649507  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-649507

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGG 225  
|||||:|:|:|:|:|:|  
Db 19 GGGGTGGGTGGAGGGG 3

## RESULT 2540

US-10-310-914A-660861  
; Sequence 660861, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 660861

```
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-660861

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGGGGG 222
    |||:|:|:|:|:|:|
Db 3 GGGUGGGUGGGUGGGG 19

RESULT 2541
US-10-310-914A-675502/c
; Sequence 675502, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 675502
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-675502

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 658 AGCGCGGGCGGGGGG 674
    |||:|:|:|:|:|:|
Db 18 AGAGCGGGCGGGGGGG 2

RESULT 2542
US-10-310-914A-689721/c
; Sequence 689721, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 689721
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-689721

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 207 GGGGGGTGGGGGGG 223
    |||:|:|:|:|:|:|
Db 17 GGGGGTGGGGTGGGG 1

RESULT 2543
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```
US-10-310-914A-692840/c
; Sequence 692840, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 692840
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-692840

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACCTGT 2268
    |||:|:|:|:|:|:|
Db 18 CAGTGGCTCACACCTGT 2

RESULT 2544
US-10-310-914A-700946
; Sequence 700946, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 700946
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-700946

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 64.7%; Pred. No. 1.5e+03;
Matches 11; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 290 ACCCTCTCTCTCTCTC 306
    |||:|:|:|:|:|:|
Db 2 ACCUCCUCCUCCUCCUC 18

RESULT 2545
US-10-310-914A-700952
; Sequence 700952, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 700952
; LENGTH: 19
```

```
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-700952

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 64.7%; Pred. No. 1.5e+03;
Matches 11; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 290 ACTCTCTCTCTCTCTC 306
    |||:||||:||||:|
Db 1 ACCUCCUCCUCCUCCUC 17

RESULT 2546
US-10-310-914A-719684
; Sequence 719684, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 719684
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-719684

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1897 CCACCCCGAGTTGAGTC 1913
    |||:||||:||||:|
Db 3 CCACCCCGAGTUGAGGC 19

RESULT 2549
US-10-310-914A-763427/c
; Sequence 763427, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 763427
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-763427

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACCTGT 2268
    |||:||||:||||:|
Db 18 CAGTGGCTCACACCTGT 2

RESULT 2550
US-10-310-914A-764855/c
; Sequence 764855, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 764855
; LENGTH: 19
; TYPE: RNA
US-10-310-914A-728245

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 1.5e+03;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 308 TCTCTCTCTCTCTCTCCG 324
    :|:|:|:|:|:|:|
Db 1 UCUCUCCUCCUCCUCCG 17

RESULT 2548
US-10-310-914A-730912
```



```
; ORGANISM: Human
US-10-310-914A-764855

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 293 TCCTCTCTCTTCTCTGTC 309
    |||||
Db 19 TCCTCTCTCTTCTCTGTC 3

RESULT 2551
US-10-310-914A-78096
; Sequence 78096, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 78096
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-78096

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGGCGGCGGCGGC 675
    |||||
Db 3 GCGGCGGCGGCGGCGGC 19

RESULT 2552
US-10-310-914A-783235/c
; Sequence 783235, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 783235
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-783235

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 65 TGCCTCAACCTTCTGAG 81
    |||||
Db 18 TGCCTCAACCTTCTGAG 2

RESULT 2553
US-10-310-914A-784332/c
; Sequence 784332, Application US/10310914A
```

```
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 784332
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-784332

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 16 TTTCGCGGTTGGGGGG 32
    |||||
Db 18 TTATGCGGTTGGGGGG 2

RESULT 2554
US-10-310-914A-804103
; Sequence 804103, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 804103
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-804103

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 1.5e+03;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 270 CTGCCTCTCTCTCTCC 286
    |||||
Db 2 CUGCCUCCGCCUCCUCC 18

RESULT 2555
US-10-310-914A-804653
; Sequence 804653, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 804653
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
```

US-10-310-914A-804653

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGGC 666  
||||| ||||| ||||| |||||  
Db 3 GCGGCGCAGCGCGCGC 19

RESULT 2556

US-10-310-914A-810323  
; Sequence 810323, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 810323

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-810323

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 82.4%; Pred. No. 1.5e+03;  
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2084 CCTCGCCTCGCGCCC 2100  
||||| ||||| ||||| |||||  
Db 1 CCCUGGCCUGCGCGCC 17

RESULT 2557

US-10-310-914A-820902  
; Sequence 820902, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 820902

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-820902

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 82.4%; Pred. No. 1.5e+03;  
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 261 CACCACCTCTGCTCC 277  
||||| ||||| ||||| |||||  
Db 2 CACCACCGCGCGCUCC 18

RESULT 2558

US-10-310-914A-821842  
; Sequence 821842, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 821842

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-821842

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGCGCGCGCGGC 675  
||||| ||||| ||||| |||||  
Db 3 GCGGCGCGCGCGCGGC 19

RESULT 2559

US-10-310-914A-830252  
; Sequence 830252, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 830252

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-830252

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGCGCGCGCGGC 675  
||||| ||||| ||||| |||||  
Db 2 GCGGCGCGCGCGCGGC 18

RESULT 2560

US-10-310-914A-848998  
; Sequence 848998, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 848998

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-848998

```
Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1071 GCGGCCAGCGTGGTAG 1087
      ||||| ||| ||| ||| |||
Db 3 GCGGCCGCGGGUGGUAG 19

RESULT 2561
US-10-310-914A-863405/c
; Sequence 863405, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 863405
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-863405

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1877 GAAAGAAGCATGTACCA 1893
      ||||| ||| ||| ||| |||
Db 18 GAAAGAAGCATGTAGCA 2

RESULT 2562
US-10-310-914A-867729/c
; Sequence 867729, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 867729
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-867729

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACCTGT 2268
      ||||| ||| ||| ||| |||
Db 18 CAGTGGCTCACACCTGT 2

RESULT 2563
US-10-310-914A-870168/c
; Sequence 870168, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 870168
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-870168

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACCTGT 2268
      ||||| ||| ||| ||| |||
Db 18 CAGTGGCTCACACCTGT 2

RESULT 2564
US-10-310-914A-870702
; Sequence 870702, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 870702
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-870702

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 657 CAGCGCGCGCGCGGG 673
      ||||| ||| ||| ||| |||
Db 1 CAGCGCGCGCGCGAGG 17

RESULT 2565
US-10-310-914A-872313/c
; Sequence 872313, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 872313
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-872313
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Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACTCT 2268
|||||
Db 18 CAGTGGCTCACACTCT 2

RESULT 2566
US-10-310-914A-908423
; Sequence 908423, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 908423
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-908423

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGGCGGCGGGGC 675
|||||
Db 1 GCGGCGGCGGCGGCGC 17

RESULT 2567
US-10-310-914A-911408/c
; Sequence 911408, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 911408
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-911408

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 273 CTTCTCTCTCTCTCCACC 289
|||||
Db 18 CTTCTCTCTCTCTCCCC 2

RESULT 2568
US-10-310-914A-922122/c
; Sequence 922122, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
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; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 922122
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-922122

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 210 GGGTGGGTGGGGGGA 226
|||||
Db 18 GGGGGGGGTGGGGGGA 2

RESULT 2569
US-10-310-914A-936571/c
; Sequence 936571, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 936571
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-936571

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 282 CTTCCACCACCTCTCC 298
|||||
Db 18 CTTCCACCACCTCCACC 2

RESULT 2570
US-10-310-914A-962532/c
; Sequence 962532, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 962532
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-962532

Query Match          0.5%; Score 15.4; DB 1; Length 19;
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```
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 371 CCCAAGCCGGAGCCCC 387
Db 17 CCCAAGCCGGTCCCC 1

RESULT 2571
US-10-310-914A-971586/c
; Sequence 971586, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 971586
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-971586

Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2663 CCCACCCCTCTCCCTT 2679
Db 18 CCGACCCCTCTCCCTT 2

RESULT 2572
US-10-310-914A-988066/c
; Sequence 988066, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 988066
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-988066

Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 208 GGGGGTGGGGTGGGGG 224
Db 18 GGGGGCGGGGTGGGGG 2

RESULT 2573
US-10-310-914A-99075
; Sequence 99075, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
```

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; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 99075
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-99075

Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 269 CCTGCCTCTCTCTCTC 285
Db 2 CCUUCUCCUCCUCCUC 18

RESULT 2574
US-10-857-780-4346
; Sequence 4346, Application US/10857780
; Publication No. US2005027043A1
; GENERAL INFORMATION:
; APPLICANT: ROTH, RICHARD B.
; APPLICANT: BRAUN, ANDREAS
; APPLICANT: KAMMERER, STEFAN M.
; APPLICANT: NELSON, MATTHEW ROBERTS
; APPLICANT: RENELAND, RIKARD HENRY
; APPLICANT: HOVAL-WRIGHTSON, CAROLYN R.
; TITLE OF INVENTION: METHODS FOR IDENTIFYING RISK OF BREAST CANCER AND TREATMENTS
; TITLE OF INVENTION: THEROPF
; FILE REFERENCE: SEQ-4069-CP
; CURRENT APPLICATION NUMBER: US/10/857,780
; CURRENT FILING DATE: 2004-05-28
; PRIOR APPLICATION NUMBER: 10/723,681
; PRIOR FILING DATE: 2003-11-25
; PRIOR APPLICATION NUMBER: 60/490,234
; PRIOR FILING DATE: 2003-07-24
; PRIOR APPLICATION NUMBER: 60/525,239
; PRIOR FILING DATE: 2003-11-25
; NUMBER OF SEQ ID NOS: 4962
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4346
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic primer
US-10-857-780-4346

Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2785 TCCCTGCGCAGCGGTG 2801
Db 3 TCCCATGCCAGCGGTG 19

RESULT 2575
US-11-083-784-1000355/c
; Sequence 1000355, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
```

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; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1000355
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1000355
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```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 2678 TTTCATGGATTGTTTCCTT 2694
Db 17 TTTCATGGATTGTTCCCTT 1
```

```
RESULT 2576
US-11-083-784-100564/c
; Sequence 100564, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 100564
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-100564
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1681 TTCTGGTGGCTGTGGT 1697
Db 19 TTCTGGTGGCGGTGGT 3
```

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RESULT 2577
US-11-083-784-100664/c
; Sequence 100664, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Khvorova, Anastasia
```

```
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 100664
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-100664
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1681 TTCTGGTGGCTGTGGT 1697
Db 19 TTCTGGTGGCGGTGGT 3
```

```
RESULT 2578
US-11-083-784-100761/c
; Sequence 100761, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmoon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 100761
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-100761
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1681 TTCTGGTGGCTGTGGT 1697
Db 19 TTCTGGTGGCGGTGGT 3
```

```
RESULT 2579
US-11-083-784-1007841/c
; Sequence 1007841, Application US/11083784
; Publication No. US20050245475A1
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GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; PRIOR FILING DATE: 2005-03-18  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1007841  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-1007841

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 285 CCACCACCTCTCTCTCC 301  
DB 17 CCACCACCTCTCTCTCC 1

## RESULT 2580

US-11-083-784-1007931/c  
; Sequence 1007931, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; PRIOR FILING DATE: 2005-03-18  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1007931  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-1007931

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 285 CCACCACCTCTCTCTCC 301  
DB 17 CCACCACCTCTCTCTCC 1

## RESULT 2581

US-11-083-784-1027970/c  
; Sequence 1027970, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; PRIOR FILING DATE: 2005-03-18  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1027970  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-1027970

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1091 TTGCTCTCTCTCTCTC 1107  
DB 17 TTGCTCTCTCTCTCTC 1

## RESULT 2582

US-11-083-784-1028377  
; Sequence 1028377, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; PRIOR FILING DATE: 2005-03-18  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1028377  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-1028377

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 58.8%; Pred. No. 1.5e+03;  
Matches 10; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 289 CACCTCTCTCTCTCTCT 305  
DB 1 CACCTCTCTCTCTCTCT 17

```
RESULT 2583
US-11-083-784-1038639/c
; Sequence 1038639, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1038639
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1038639

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 270 CTGCTCTCTCTCTCTCTCC 286
DB 18 CTTCCTCTCTCTCTCTCC 2

RESULT 2584
US-11-083-784-1068900/c
; Sequence 1068900, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1068900
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1068900

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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```
QY 288 CCACCTCTCTCTCTCTTC 304
DB 17 CCTCTCTCTCTCTCTTC 1

RESULT 2585
US-11-083-784-1081080
; Sequence 1081080, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1081080
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1081080

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 58.8%; Pred. No. 1.5e+03;
Matches 10; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 289 CACCTCTCTCTCTCTTCT 305
DB 1 CAACUCCUCCUCCUCCU 17

RESULT 2586
US-11-083-784-1091685
; Sequence 1091685, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1091685
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1091685

Query Match          0.5%; Score 15.4; DB 1; Length 19;
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100

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; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1147588

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2216 AGAAGAAGCGTGTT 2232
Db 17 AGAAGAAGCGCATTTGTT 1

RESULT 2591
US-11-083-784-1155516
; Sequence 1155516, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1155516
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1155516

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 76.5%; Pred. No. 1.5e+03;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 466 ACATGTCGAGGAGGA 482
Db 3 ACAUGUCUAGAGAGGA 19

RESULT 2592
US-11-083-784-1168867
; Sequence 1168867, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1168867
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1168867

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2363 AAAGACAGACAGACAGA 2379
Db 3 AAGGACAGACAGACAGA 19

RESULT 2593
US-11-083-784-1172501/c
; Sequence 1172501, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1172501
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1172501

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 6 CTTCTCTGCTTTCTGG 22
Db 17 CTTCACTGCTTTCTGG 1

RESULT 2594
US-11-083-784-1172748/c
; Sequence 1172748, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
```

```
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1172748
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1172748

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1096 TCTCTCTCTTCATCTT 1112
Db 19 TTTCTCTCTTCATCTT 3

RESULT 2595
US-11-083-784-1209643
; Sequence 1209643, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1209643
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1209643

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1877 GAAAGAAGCATGTACCA 1893
Db 1 GAAAGAAGCAUGUAGCA 17

RESULT 2596
US-11-083-784-1209715
; Sequence 1209715, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18

; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1172748
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1172748

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1096 TCTCTCTCTTCATCTT 1112
Db 19 TTTCTCTCTTCATCTT 3

RESULT 2595
US-11-083-784-1209643
; Sequence 1209643, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1209643
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1209643

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1877 GAAAGAAGCATGTACCA 1893
Db 1 GAAAGAAGCAUGUAGCA 17

RESULT 2596
US-11-083-784-1209715
; Sequence 1209715, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18

; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1209715
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1209715

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1877 GAAAGAAGCATGTACCA 1893
Db 2 GAAAGAAGCAUGUAGCA 18

RESULT 2597
US-11-083-784-1213344/c
; Sequence 1213344, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1213344
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1213344

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2148 AAACAAGAAGCAGCTG 2164
Db 18 AAACAAGAAGGAGCTG 2

RESULT 2598
US-11-083-784-1213741/c
; Sequence 1213741, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
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; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1213741
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1213741

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1100 TCCTTCTTCATCTGGTC 1116
Db 18 TCCTTCTTCATCTGGTC 2

RESULT 2599
US-11-083-784-1225497/c
; Sequence 1225497, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1225497
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1225497

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2835 TTCTGGGTCACATGCTT 2851
Db 19 TTCTGGTGCATGCTT 3

RESULT 2600
US-11-083-784-1227327
; Sequence 1227327, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
```

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; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1227327
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1227327

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 1.5e+03;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 437 GCAAGTCGGGGACACAG 453
Db 1 GCAAGUCUGGGACACAG 17

RESULT 2601
US-11-083-784-1236248
; Sequence 1236248, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1236248
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1236248

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2369 AGACAGACAGAAAGCCA 2385
Db 3 AGACAGACAGAAAGACA 19

RESULT 2602
US-11-083-784-1264897
; Sequence 1264897, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
```

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; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1264897
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1264897

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 1.5e+03;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACCTGT 2268
    |||:|:|||||:|:
Db 2 CAGUGGCUCACACCCUGU 18

RESULT 2603
US-11-083-784-1264899
; Sequence 1264899, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1264899
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1264899

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 1.5e+03;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACCTGT 2268
    |||:|:|||||:|:
Db 1 CAGUGGCUCACACCCUGU 17

RESULT 2604
US-11-083-784-1264944
; Sequence 1264944, Application US/11083784
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; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1264944
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1264944

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 1.5e+03;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACCTGT 2268
    |||:|:|||||:|:
Db 1 CAGUGGCUCACACCCUGU 17

RESULT 2605
US-11-083-784-1271365/c
; Sequence 1271365, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1271365
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1271365

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2055 CGATGAGGAGGAGCTG 2071
    |||:|:|||||:|:
Db 18 CGAGAGGAGGAGCTG 2
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RESULT 2606
US-11-083-784-1281327/c
; Sequence 1281327, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1281327
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
; US-11-083-784-1281327

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 280 CTCCTCCACCACTCTCT 296
Db 17 CTCCTCCACCTCTCTCT 1

RESULT 2607
US-11-083-784-1296043/c
; Sequence 1296043, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1296043
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
; US-11-083-784-1296043

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 267 CTCCTGCCTCTCTCTCC 283
Db 17 CTCCTGCCTCTCTCTCC 1

RESULT 2608
US-11-083-784-1296110/c
; Sequence 1296110, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1296110
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
; US-11-083-784-1296110

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 267 CTCCTGCCTCTCTCTCC 283
Db 17 CTCCTGCCTCTCTCTCC 1

RESULT 2609
US-11-083-784-1308772
; Sequence 1308772, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1308772
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
; US-11-083-784-1308772

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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; ORGANISM: Homo sapiens
US-11-083-784-1414028

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2450 ACAAGACTGGTGAAGA 2466
    |||||:|:|:|
Db 3 ACAAGACUGGUGGACAA 19

RESULT 2614
US-11-083-784-1422977/c
; Sequence 1422977, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1422977
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1422977

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2074 CTCACCCAGCCCTGGC 2090
    |||||:|:|:|
Db 17 CTCACCCAGCCCATGGC 1

RESULT 2615
US-11-083-784-1431606
; Sequence 1431606, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
US-11-083-784-1414028

; SEQ ID NO 1431606
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1431606

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 1.5e+03;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 476 AGGAGGAGATGGCCAG 492
    |||||:|:|:|
Db 1 AGGAGGAGGUGGCCAAG 17

RESULT 2616
US-11-083-784-1456527/c
; Sequence 1456527, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1456527
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1456527

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1089 CTTTGCCTCTCTTCT 1105
    |||||:|:|:|
Db 18 CTTTGCCTCTCTTCT 2

RESULT 2617
US-11-083-784-1456528/c
; Sequence 1456528, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; SOFTWARE: Proprietary
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; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1456528
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1456528

Query Match
Best Local Similarity 0.5%; Score 15.4; DB 1; Length 19;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1089 CTTGCTCTCTCTCTCT 1105
Db 17 CTTGCTCTCTCTCTCT 1

RESULT 2618
US-11-083-784-1481529
; Sequence 1481529, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 134990US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1481529
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1481529

Query Match
Best Local Similarity 0.5%; Score 15.4; DB 1; Length 19;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACCTGT 2268
Db 2 CAGUGGCUCACACCCUGU 18

RESULT 2619
US-11-083-784-1489990
; Sequence 1489990, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 134990US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14

; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1489990
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1489990

Query Match
Best Local Similarity 0.5%; Score 15.4; DB 1; Length 19;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1332 CAAGAACCTGTCTCAACA 1348
Db 2 CGAGAACCUGCUCAACA 18

RESULT 2621
US-11-083-784-152565
; Sequence 152565, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 134990US
; CURRENT APPLICATION NUMBER: US/11/083,784
```



; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1553330  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-1553330

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1873 AAACGAAAGAGCATGT 1889  
|||||  
Db 18 AAACCAAGAGCATGT 2

RESULT 2626  
US-11-083-784-1556320  
; Sequence 1556320, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1556320  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-1556320

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 70.6%; Pred. No. 1.5e+03;  
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 122 ACCCTCTGCTCCCTTA 138  
|||||  
Db 2 ACCUCCGCUCCUCCUA 18

RESULT 2627  
US-11-083-784-1583810  
; Sequence 1583810, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1583810  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-1583810

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 70.6%; Pred. No. 1.5e+03;  
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGCTCACACCTGT 2268  
|||||  
Db 1 CAGUGGCUCACACCTGT 17

RESULT 2628  
US-11-083-784-185600/c  
; Sequence 185600, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 185600  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-185600

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2689 TTCTCTGACCATGTT 2705  
|||||  
Db 19 TTCTCTGACCATGTT 3

RESULT 2629  
US-11-083-784-228473

```
; Sequence 228473, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 228473
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
;
US-11-083-784-228473

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1868 CCAAGAAACGAAGAAG 1884
Db 1 CCAAGAAACUAAGAAG 17

RESULT 2630
US-11-083-784-228540
; Sequence 228540, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 228540
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
;
US-11-083-784-228540

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1868 CCAAGAAACGAAGAAG 1884
Db 2 CCAAGAAACUAAGAAG 18

RESULT 2631
US-11-083-784-229662/c
; Sequence 229662, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 229662
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
;
US-11-083-784-229662

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1910 AGTCACCCATTACTGC 1926
Db 17 AGTCACCCATGTACTGC 1

RESULT 2632
US-11-083-784-239502/c
; Sequence 239502, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 239502
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
;
US-11-083-784-239502

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1100 TCTTCTTCATCTTGTC 1116
```

Query Match	0.5%;	Score 15.4;	DB 1;	Length 19;
Best Local Similarity	70.6%;	Pred. No. 1.5e+03;		

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 82.4%; Pred. No. 1.5e+03;  
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1649 ACCACACCGACTTCAAG 1665  
||||||| ||:||||  
Db 3 ACCACACCUACUUCAG 19

RESULT 2637  
US-11-083-784-266159  
; Sequence 266159, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 266159  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-266159

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 88.2%; Pred. No. 1.5e+03;  
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1858 CAGAGCTTCCCAAGAA 1874  
||||||| ||:||||  
Db 1 CAGAGCUGCCCAAGAA 17

RESULT 2638  
US-11-083-784-266171  
; Sequence 266171, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 266171  
; LENGTH: 19

; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-266171

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 58.8%; Pred. No. 1.5e+03;  
Matches 10; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 1822 AACTTTGGTATGTACTA 1838  
||||:|||| |:||||:  
Db 2 AACUUUGGCAUGACUA 18

RESULT 2639  
US-11-083-784-269922  
; Sequence 269922, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 269922  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-269922

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 70.6%; Pred. No. 1.5e+03;  
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACCTGT 2268  
||||:||||:||||:  
Db 2 CAGUGGCUACACACUGU 18

RESULT 2640  
US-11-083-784-271291  
; Sequence 271291, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911

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; SOFTWARE: Proprietary
; SEQ ID NO 271291
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-271291

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 58.1%; Pred. No. 1.5e+03;
Matches 10; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 1345 AACATCATCGACTTGT 1361
Db 2 AACAUUUGACUUGU 18

RESULT 2641
US-11-083-784-277787/c
; Sequence 277787, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR FILING DATE: 2003-09-10
; PRIOR FILING DATE: 2003-09-10
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 277787
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-277787

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1403 TGTCTCCAGGCGACT 1419
Db 19 TGTCTCCAGGCGACT 3

RESULT 2642
US-11-083-784-283855/c
; Sequence 283855, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR FILING DATE: 2003-09-10
; PRIOR FILING DATE: 2003-09-10
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 277787
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-277787

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1403 TGTCTCCAGGCGACT 1419
Db 19 TGTCTCCAGGCGACT 3

RESULT 2643
US-11-083-784-283963/c
; Sequence 283963, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR FILING DATE: 2003-09-10
; PRIOR FILING DATE: 2003-09-10
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 283963
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-283963

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1354 GACTTTGTGGCCATCTT 1370
Db 18 GACTTTGTGGCCATCTT 2

RESULT 2644
US-11-083-784-292890/c
; Sequence 292890, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-09-10
; PRIOR FILING DATE: 2003-09-10
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 283963
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-292890/c

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1354 GACTTTGTGGCCATCTT 1370
Db 18 GACTTTGTGGCCATCTT 2

RESULT 2645
US-11-083-784-292890/c
; Sequence 292890, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-09-10
; PRIOR FILING DATE: 2003-09-10
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 283963
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-292890/c

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1354 GACTTTGTGGCCATCTT 1370
Db 18 GACTTTGTGGCCATCTT 2
```

```
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 292890
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-292890
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1096 TCTCTCTTCTCATCT 1112
Db 19 TCTCTCTTCTCATCT 3
```

```
RESULT 2645
US-11-083-784-352582
; Sequence 352582, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 352582
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-352582
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 1.5e+03;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 476 AGGAGGAGATGCCAAG 492
Db 1 AGGAGGAGAGCAACCAAG 17
```

```
RESULT 2646
US-11-083-784-362300/c
; Sequence 362300, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
```

```
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 362300
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-362300
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 64 TTGCCTCAACCTTCTGA 80
Db 17 TTGTCTCAACCTTCTGA 1
```

```
RESULT 2647
US-11-083-784-39894/c
; Sequence 39894, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 39894
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-39894
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 944 AGCGGAGTGGCCTTG 960
Db 17 AGCGGGAATTGGCCTTG 1
```

```
RESULT 2648
US-11-083-784-408473
; Sequence 408473, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
```



; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; PRIOR FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 408473  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-408473

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 70.6%; Pred. No. 1.5e+03;  
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACCTGT 2268  
|||:|:|:|:|:|:|:  
Db 2 CAGUGGCUACACCCUGU 18

RESULT 2649  
US-11-083-784-408478  
; Sequence 408478, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 408478  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-408478

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 70.6%; Pred. No. 1.5e+03;  
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACCTGT 2268  
|||:|:|:|:|:|:|:  
Db 1 CAGUGGCUACACCCUGU 17

RESULT 2650  
US-11-083-784-412099/c  
; Sequence 412099, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 412099  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-412099

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 117 TCTTCACCTCTGCTC 133  
|||||:|:|:|:|:|:|:  
Db 18 TCTTCACCTCTGCTTC 2

RESULT 2651  
US-11-083-784-412201/c  
; Sequence 412201, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 412201  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-412201

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 117 TCTTCACCTCTGCTC 133  
|||||:|:|:|:|:|:|:  
Db 18 TCTTCACCTCTGCTTC 2

RESULT 2652  
US-11-083-784-412299/c  
; Sequence 412299, Application US/11083784  
; Publication No. US20050245475A1

```
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 412299
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
US-11-083-784-412299
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 117 TCTTCACTCTCGCTTC 133
DB 18 TCTTCACTCTCGCTTC 2
```

## RESULT 2653

```
US-11-083-784-412409
; Sequence 412409, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 412409
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
US-11-083-784-412409
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 2363 AAAGACAGACGACAGA 2379
DB 3 AAAGACAGACCGACAGA 19
```

## RESULT 2654

```
US-11-083-784-412608
; Sequence 412608, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 412608
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
US-11-083-784-412608
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 2363 AAAGACAGACGACAGA 2379
DB 3 AAAGACAGACCGACAGA 19
```

## RESULT 2655

```
US-11-083-784-425420/c
; Sequence 425420, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 425420
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
US-11-083-784-425420
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 267 CTCCTGCTCTCTCTCC 283
DB 17 CTCCTGCTCTCTCTCC 1
```

```
RESULT 2656
US-11-083-784-426482
; Sequence 426482, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 426482
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-426482

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2360 GAGAAAGACAGACAGAC 2376
DB ||||| ||||| ||||| |||||

RESULT 2657
US-11-083-784-455365
; Sequence 455365, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 455365
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-455365

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 1.5e+03;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 2360 GAGAAAGACAGACAGAC 2376
DB ||||| ||||| ||||| |||||

RESULT 2658
US-11-083-784-455365
; Sequence 455365, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 455365
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-455365

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1332 CAAGAACCTGCTCAACA 1348
DB ||||| ||||| ||||| |||||

RESULT 2659
US-11-083-784-456787
; Sequence 456787, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 456787
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-456787

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1332 CAAGAACCTGCTCAACA 1348
DB ||||| ||||| ||||| |||||

RESULT 2659
US-11-083-784-456787
; Sequence 456787, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 456787
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-456787

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1332 CAAGAACCTGCTCAACA 1348
DB ||||| ||||| ||||| |||||
```

Best Local Similarity 82.4%; Pred. No. 1.5e+03; DB 1; Length 19;  
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1332 CAAGAACCTGCTCAACA 1348  
||||| |:|:|:|:|  
Db 1 CAAGAAACUGCUCAACA 17

## RESULT 2660

US-11-083-784-458436/c  
; Sequence 458436, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmakon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 458436  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-458436

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 270 CTGCTCTCTCTCTCTCC 286  
||||| |:|:|:|:|  
Db 18 CTTCCTCTCTCTCTCTCC 2

## RESULT 2661

US-11-083-784-458533/c  
; Sequence 458533, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmakon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 458533  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens

## US-11-083-784-458533

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 270 CTGCTCTCTCTCTCTCC 286  
||||| |:|:~|:|:|  
Db 18 CTTCCTCTCTCTCTCTCC 2

## RESULT 2662

US-11-083-784-459976  
; Sequence 459976, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmakon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 459976  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-459976

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 82.4%; Pred. No. 1.5e+03;  
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2451 CAAGACTGCTGAAAAA 2467  
||||| |:|:|:|:|  
Db 1 CAAGACUGGUGGACAAA 17

## RESULT 2663

US-11-083-784-459998/c  
; Sequence 459998, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmakon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083,784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 459998

```
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-45998

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1101 CTTCTTCATCTTGGTCT 1117
Db 17 CTTCTTCATCTTGGTCT 1

RESULT 2664
US-11-083-784-465045/c
; Sequence 465045, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 465045
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-465045

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1100 TCTTTCATCTTGGTC 1116
Db 18 TCTTTCATCTTGGTC 2

RESULT 2665
US-11-083-784-466868/c
; Sequence 466868, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
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; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 466868
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-466868

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 6 CTTCTCTCTCTTCTGG 22
Db 17 CTTCTGTGTCTTCTGG 1

RESULT 2666
US-11-083-784-467178
; Sequence 467178, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 467178
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-467178

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 1.5e+03;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1337 ACCTGCTCAACATCATC 1353
Db 2 ACCUGCUCAGAGCAUC 18

RESULT 2667
US-11-083-784-505210/c
; Sequence 505210, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
```

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; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 505210
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-505210

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2257 TCTCACACCTGCTCT 2273
Db 19 TCTCACACCGTGCTCT 3

RESULT 2668
US-11-083-784-511326/c
; Sequence 511326, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 511326
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-511326

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 270 CTGCTCTCTCTCTCTCC 286
Db 18 CTTCCTCTCTCTCTCTCC 2

RESULT 2669
US-11-083-784-520089/c
; Sequence 520089, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18

; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 520089
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-520089

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 293 TCCTCTCTCTCTCTCGTC 309
Db 18 TCCTCTCTCTCTCTCGTC 2

RESULT 2670
US-11-083-784-570542
; Sequence 570542, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 570542
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-570542

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1332 CAAGAACCTGCTCAACA 1348
Db 2 CAAGAACCGUCUCAAGA 18

RESULT 2671
US-11-083-784-570550
; Sequence 570550, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
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; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 570550
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-570550

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1332 CAAGAACCTGCTCAACA 1348
Db      |||||:|||||
3 CAAGAACCGUCACAGA 19

RESULT 2672
US-11-083-784-584689
; Sequence 584689, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 584689
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-584689

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 1.5e+03;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGCTCACCACCTGT 2268
Db      |||||:|||||
1 CAGUGGCUACACACUGU 17

RESULT 2673
US-11-083-784-586620/c
; Sequence 586620, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 601713
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-601713/c
; Sequence 601713, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 601713
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-601713

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 288 CCACCTCTCTCTCTTC 304
Db      |||||:|||||
17 CCAGCTCTCTCTCTTC 1

RESULT 2674
US-11-083-784-601713/c
; Sequence 601713, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 601713
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-601713

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1094 CCTCTCTCTCTCTTCATC 1110
Db      |||||:|||||
17 CTCTCTCTCTCTTCATC 1

RESULT 2675
US-11-083-784-632280
; Sequence 632280, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
```

```
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 632280
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-632280
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 41.2%; Pred. No. 1.5e+03;
Matches 7; Conservative 9; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 675 CTCTGAGTCTTCTTTG 691
| : : : : : : : : : :
Db 2 CUCGAGUUCUUCUUG 18
```

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RESULT 2676
US-11-083-784-664361/c
; Sequence 664361, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 664361
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-664361
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1099 CTCTTCTTCATCTTGGT 1115
| : : : : : : : : : :
Db 19 CTCTTCTTCATCTTGT 3
```

```
RESULT 2677
US-11-083-784-671044
; Sequence 671044, Application US/11083784
```

```
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 671044
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-671044
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1951 GACAGCACCTACAGTGA 1967
| : : : : : : : : : :
Db 1 GAGAGCACCUACAGUGA 17
```

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RESULT 2678
US-11-083-784-671119
; Sequence 671119, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 671119
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-671119
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1951 GACAGCACCTACAGTGA 1967
| : : : : : : : : : :
Db 3 GAGAGCACCUACAGUGA 19
```



```
RESULT 2679
US-11-083-784-671953/c
; Sequence 671953, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 671953
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-671953

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1422 ACATGTGCTGGCTTCC 1438
DB 17 AGATGTGCTGGCTTCC 1

RESULT 2680
US-11-083-784-672564
; Sequence 672564, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 672564
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-672564

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 1.5e+03;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2279 CACAGAGACCTGCCAAG 2295
DB 17 CACAGAGACCTGCCAAG 2295

RESULT 2679
US-11-083-784-714924
; Sequence 714924, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 714924
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-714924

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 76.5%; Pred. No. 1.5e+03;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1228 GAAACAGAACCCATTCT 1244
DB 2 GAAACAGAACCCAUUUU 18

RESULT 2682
US-11-083-784-737785/c
; Sequence 737785, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 737785
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-737785

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 2688 GTTCTCTGACCATGT 2704
Db 18 GTTCTTCAGACCATGT 2

Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 293 TCCTCTCTCTCTCGTC 309
Db 18 TCCTCTCTCTCTCGTC 2

RESULT 2685
US-11-083-784-767058
; Sequence 767058, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 767058
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-767058

Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 150 CCAAAATCCCAACCACT 166
Db 1 CCAAAUCCAACCACT 17

RESULT 2686
US-11-083-784-767157
; Sequence 767157, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 767157
; LENGTH: 19
; TYPE: RNA
US-11-083-784-759724/c

Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1860 GAAGCTTCCCAAGAAC 1876
Db 1 GAAGCUUCCUAGAGAAC 17

RESULT 2684
US-11-083-784-759724/c
; Sequence 759724, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 759724
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-759724
```

```
; ORGANISM: Homo sapiens
US-11-083-784-767157

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 150 CCAATCCCAACCACT 166
Db 1 CCAAAUCCAAACCACT 17

RESULT 2687
US-11-083-784-771069
; Sequence 771069, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 771069
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-771069

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.8%; Pred. No. 1.5e+03;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 2797 AGGTGGCCCTGCTCACT 2813
Db 2 AGUGGCCUGGAGU 18

RESULT 2688
US-11-083-784-795065
; Sequence 795065, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
US-11-083-784-771069

; SEQ ID NO 795065
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-795065

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 52.9%; Pred. No. 1.5e+03;
Matches 9; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY 763 GTCTGTGGGCTCTCTT 779
Db 2 GUCUGGCCUCUCUU 18

RESULT 2689
US-11-083-784-795845/c
; Sequence 795845, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 795845
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-795845

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1095 CTCTCTCTCTTCATCT 1111
Db 18 CTCTCTCTCTTCATCT 2

RESULT 2690
US-11-083-784-806564/c
; Sequence 806564, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
```

```
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 806564
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-806564

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 118 CTTCACTCTCTCGCTCC 134
    | ||||| ||||| |||||
Db 17 CCTCACCTCTCGCTCC 1

RESULT 2691
US-11-083-784-806581/c
; Sequence 806581, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 806581
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-806581

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 293 TCCTCTCTCTCTCGTC 309
    | ||||| ||||| |||||
Db 18 TCCTCTCTCTCTCGTC 2

RESULT 2692
US-11-083-784-823169/c
; Sequence 823169, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
```

```
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 823169
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-823169

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1328 TTGTCAAGAACCTGCTC 1344
    ||||| ||||| ||||| |||||
Db 19 TTGTGAAGAACCTGCTC 3

RESULT 2693
US-11-083-784-836335/c
; Sequence 836335, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 836335
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-836335

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1878 AAAGAGCATGTACCAC 1894
    ||||| ||||| ||||| |||||
Db 18 AAAGAGCATGTACCAC 2

RESULT 2694
US-11-083-784-847666
; Sequence 847666, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
```

```
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 847666
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-847666

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.1%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2448 GCACAGACTGGTGGAA 2464
DB 1 GCACAGACUGGCGAA 17
|||||:|:|

RESULT 2695
US-11-083-784-848809/c
; Sequence 848809, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 134990S
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 848809
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-848809

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2325 GAAGTCCTCACCTCTC 2341
DB 19 GAAGTCCTCACCTCTC 3
|||||:|:|

RESULT 2696
US-11-083-784-848906/c
; Sequence 848906, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
```

```
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 134990S
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 848906
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-848906

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2325 GAAGTCCTCACCTCTC 2341
DB 19 GAAGTCCTCACCTCTC 3
|||||:|:|

RESULT 2697
US-11-083-784-849009/c
; Sequence 849009, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 134990S
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 849009
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-849009

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2325 GAAGTCCTCACCTCTC 2341
DB 19 GAAGTCCTCACCTCTC 3
|||||:|:|

RESULT 2698
US-11-083-784-849106/c
; Sequence 849106, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
```

```
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/11/083,784
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 849106
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-849106
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 2325 GAAGTCCTCACCCTCTC 2341
Db 19 GAAGTCCTCACCCTTTC 3
```

```
RESULT 2699
US-11-083-784-858131
; Sequence 858131, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 858131
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-858131
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 1.5e+03;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 477 GGAGGAGATGGCCAAGG 493
Db 2 GGAGGAGGUGGCCAAGG 18
```

```
RESULT 2700
US-11-083-784-865005
; Sequence 865005, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 865005
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-865005
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 76.5%; Pred. No. 1.5e+03;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 2216 AGAAGAAGGCAGTGTT 2232
Db 2 AGAAGAAGCCAGUGUU 18
```

```
RESULT 2701
US-11-083-784-866847/c
; Sequence 866847, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 866847
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-866847
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 2039 CTAATCGGTGCTGTCC 2055
Db 17 CTAATGCAGTGTGTCC 1
```

```
RESULT 2702
US-11-083-784-892042/c
```

```

: Sequence 892042, Application US/11083784
: Publication No. US20050245475A1
: GENERAL INFORMATION:
: APPLICANT: Pharmacon, Inc.
: APPLICANT: Khvorova, Anastasia
: APPLICANT: Reynolds, Angela
: APPLICANT: Leake, Devin
: APPLICANT: Marshall, William
: APPLICANT: Scaringe, Stephen
: TITLE OF INVENTION: Functional and Hypo
: FILE REFERENCE: 134990S
: CURRENT APPLICATION NUMBER: US/11/083,7
: CURRENT FILING DATE: 2005-03-18
: PRIOR APPLICATION NUMBER: US/10/714,333
: PRIOR FILING DATE: 2003-11-14
: PRIOR APPLICATION NUMBER: 60/502,050
: PRIOR FILING DATE: 2003-09-10
: PRIOR APPLICATION NUMBER: 60/426,137
: PRIOR FILING DATE: 2002-11-14
: NUMBER OF SEQ ID NOS: 1591911
: SOFTWARE: Proprietary
: SEQ ID NO 892042
: LENGTH: 19
: TYPE: RNA
: ORGANISM: Homo sapiens
US-11-083-784--892042

```

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. NO. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels

Qy 1099 CTCCTCTCATCTTGGT 1115  
|||  
Db 19 CTCCTCTCTTCTTGGT 3

```

RESULT 2703
US-11-083-784-917360
; Sequence 917360, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyper
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 917360
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-917360

```

```
Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 47.1%; Pred. No. 1.5e+03;
Matches 8; Conservative 8; Mismatches 1; Indels
```

Qy	2509	ATACTCTGTTCTACTGT	2525
		: : : : : : :	
Db	2	AUAGUCUGUUCUACUGU	18

```

RESULT 2704
US-11-083-784-991372/c
; Sequence 991372, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scarsinge, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 134990S
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 991372
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-991372

```

```

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.4%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      283 CTCACACACCTCTCTCT 299
Db      17 CTCACACACCTCTCTAT 1

```

```

RESULT 2705
US-11-083-784-99295
; Sequence 99295, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 99295
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-99295

```

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```
Db      1  CCAAGAAACCAAGAA 17
|||||
RESULT 2706
US-11-101-244-1000355/c
; Sequence 1000355, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1000355
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1000355
Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2678  TTCATGGATTGTTTCTT 2694
|||||
Db      17  TTCATGGATTGTTTCTT 1

RESULT 2707
US-11-101-244-100564/c
; Sequence 100564, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 100564
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-100564
Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1681  TTCTGGTGGCGTGTGGT 1697
|||||
Db      19  TTCTGGTGGCGTGTGGT 3
```

```
Db      19  TTCTGGTGGCGTGTGGT 3

RESULT 2708
US-11-101-244-100664/c
; Sequence 100664, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 100664
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-100664
Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1681  TTCTGGTGGCGTGTGGT 1697
|||||
Db      19  TTCTGGTGGCGTGTGGT 3

RESULT 2709
US-11-101-244-100761/c
; Sequence 100761, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 100761
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-100761
Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1681  TTCTGGTGGCGTGTGGT 1697
|||||
Db      19  TTCTGGTGGCGTGTGGT 3
```



RESULT 2710  
US-11-101-244-1007841/c  
; Sequence 1007841, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1007841  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-1007841

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 285 CCACCACCTCTCTCTCC 301  
|||||  
Db 17 CCACCACCTCTCTCTCC 1

RESULT 2711  
US-11-101-244-1007931/c  
; Sequence 1007931, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1007931  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-1007931

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 285 CCACCACCTCTCTCTCC 301  
|||||  
Db 17 CCACCACCTCTCTCTCC 1

RESULT 2712  
US-11-101-244-1027970/c  
; Sequence 1027970, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1027970  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-1027970

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1091 TTGCTCTCTCTCTTC 1107  
|||||  
Db 17 TTGCTCTCTCTCTTC 1

RESULT 2713  
US-11-101-244-1028377  
; Sequence 1028377, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1028377  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-1028377

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 58.8%; Pred. No. 1.5e+03;  
Matches 10; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

Qy 289 CACCTCTCTCTCTTCT 305  
|||||  
Db 1 CACCUCCUCCUCCUCCU 17

```
RESULT 2714
US-11-101-244-1038639/c
; Sequence 1038639, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1038639
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1038639

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 270 CTGCTCTCTCTCTCTCC 286
DB 18 CTCTCTCTCTCTCTCTCC 2

RESULT 2715
US-11-101-244-1068900/c
; Sequence 1068900, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1068900
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1068900

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 288 CCACCTCTCTCTCTCTCC 304
DB 17 CCTCTCTCTCTCTCTCTTC 1

RESULT 2716
US-11-101-244-1091685
; Sequence 1091685, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1091685
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1091685

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 1.5e+03;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACCTGT 2268
DB 2 CAGGGCCUACACCCUGU 18

RESULT 2717
US-11-101-244-1091685
; Sequence 1091685, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1091685
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1091685

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 58.8%; Pred. No. 1.5e+03;
Matches 10; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 289 CACCTCTCTCTCTCTCT 305
DB 1 CAACUCCUCCUCCUUCU 17

RESULT 2718
US-11-101-244-1091693
; Sequence 1091693, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1091693
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1091693

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 1.5e+03;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACCTGT 2268
DB 2 CAGGGCCUACACCCUGU 18
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; Sequence 1091693, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1091693
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1091693

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 1.5e+03;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTCTCTCACACCTGT 2268
DB 1 CAGUGGCUACACCCUGU 17

RESULT 2719
US-11-101-244-1126624/c
; Sequence 1126624, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1126624
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1126624

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1106 TCATCTTGGTCTCCATT 1122
DB 19 TCATCTTGGTCTCCACT 3

RESULT 2720
US-11-101-244-1126733/c
; Sequence 1126733, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1126733
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1126733

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1106 TCATCTTGGTCTCCATT 1122
DB 19 TCATCTTGGTCTCCACT 3

RESULT 2721
US-11-101-244-1147588/c
; Sequence 1147588, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1147588
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1147588

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2216 AGAAGAAGGCAGTGT 2232
DB 17 AGAAGAAGGCATTGT 1

RESULT 2722
US-11-101-244-1155516
; Sequence 1155516, Application US/11101244
; Publication No. US20050246794A1
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; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1155516
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1155516

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 76.5%; Pred. No. 1.5e+03;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 466 ACATGCTCTGAAGGAGGA 482
Db 3 ACAUGUCUGAAGGAGGA 19

RESULT 2723
US-11-101-244-1168867
; Sequence 1168867, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1168867
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1168867

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2363 AAAGACAGACAGACAGAGA 2379
Db 3 AAGACAGACAGACAGAGA 19

RESULT 2724
US-11-101-244-1172501/c
; Sequence 1172501, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1172501
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1172501

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1096 TCTCTCTCTTCATCTT 1112
Db 19 TTTCTCTTCTTCATCTT 3

RESULT 2725
US-11-101-244-1172748/c
; Sequence 1172748, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1172748
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1172748

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1096 TCTCTCTCTTCATCTT 1112
Db 19 TTTCTCTTCTTCATCTT 3

RESULT 2726
US-11-101-244-1209643
; Sequence 1209643, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
```

; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1209643  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-1209643

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 82.4%; Pred. No. 1.5e+03;  
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1877 GAAAGAAGCATGTACCA 1893  
|||||||:|:  
Db 1 GAAAGAAGCAUGUACCA 17

RESULT 2727  
US-11-101-244-1209715  
; Sequence 1209715, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmoon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1209715  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-1209715

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 82.4%; Pred. No. 1.5e+03;  
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1877 GAAAGAAGCATGTACCA 1893  
|||||||:|:  
Db 2 GAAAGAAGCAUGUACCA 18

RESULT 2728  
US-11-101-244-1213344/c  
; Sequence 1213344, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmoon, Inc.  
; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1213344  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-1213344

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2148 AAACAAGAGGCGCTG 2164  
|||||||:|:  
Db 18 AAACAAGAGGCGCTG 2

RESULT 2729  
US-11-101-244-1213741/c  
; Sequence 1213741, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmoon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1213741  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-1213741

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1100 TCTTCTTCATCTTGGTC 1116  
|||||||:|:  
Db 18 TCTTCTTCATCTTGGTC 2

RESULT 2730  
US-11-101-244-1225497/c  
; Sequence 1225497, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmoon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela

```
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1225497
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1225497

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2835 TTCTGGGTCACCTGCTT 2851
Db 19 TTCTGGGTCACCTGCTT 3

RESULT 2731
US-11-101-244-1227327
; Sequence 1227327, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1227327
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1227327

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 1.5e+03;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 437 GCAAGTCGGGGAACAAG 453
Db 1 GCAAGUCUGGGAACAAG 17

RESULT 2732
US-11-101-244-1236248
; Sequence 1236248, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
```

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; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1236248
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1236248

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2369 AGACAGACAGAAAGCCA 2385
Db 3 AGACAGACAGAAAGACA 19

RESULT 2733
US-11-101-244-1264897
; Sequence 1264897, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1264897
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1264897

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 1.5e+03;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACCTGT 2268
Db 2 CAGUGGCUACACACUGU 18

RESULT 2734
US-11-101-244-1264899
; Sequence 1264899, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
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RESULT 2738
US-11-101-246-1296043/c
; Sequence 1296043, Application US/1101244
; Publication.No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

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; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1296043
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1296043

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 267 CTCCTGCTCTCTCTCTCC 283
Db 17 CTCTGCTCTCTCTCTCC 1

RESULT 2739
US-11-101-244-1296110/c
; Sequence 1296110, Application US/11/101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1296110
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1296110

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 267 CTCCTGCTCTCTCTCTCC 283
Db 17 CTCTGCTCTCTCTCTCC 1

RESULT 2740
US-11-101-244-1308772
; Sequence 1308772, Application US/11/101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1308772
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1308772

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 643 GGCAGCAGCGCAGCAG 659
Db 1 GGCAGCAGCGCAGGAAG 17

RESULT 2741
US-11-101-244-1333779
; Sequence 1333779, Application US/11/101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1333779
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1333779

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 1.5e+03;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 475 AAGGAGGAGATGGCCAA 491
Db 3 AAGGAGGAGGAGGACAA 19

RESULT 2742
US-11-101-244-1333841
; Sequence 1333841, Application US/11/101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
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; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1333841
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1333841

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 1.5e+03;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 476 AGGAGGAGTGGCCCAAG 492
Db 1 AGGAGGAGGAGGACAA 17

RESULT 2743
US-11-101-244-1336449
; Sequence 1336449, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1336449
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1336449

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 58.8%; Pred. No. 1.5e+03;
Matches 10; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 1306 TGCTGCTCCCTGATACGTT 1322
Db 2 UGCGGCGGUAACGU 18

RESULT 2744
US-11-101-244-1414028
; Sequence 1414028, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07

; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1414028
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1414028

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2450 ACAAGACTGGTGGAAAA 2466
Db 3 ACAAGACUGGUGGACAA 19

RESULT 2745
US-11-101-244-1422977/c
; Sequence 1422977, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1422977
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1422977

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2074 CTCACCCAGCCCTGGC 2090
Db 17 CTCACCCAGCCCTGGC 1

RESULT 2746
US-11-101-244-1431606
; Sequence 1431606, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
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; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1431606
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1431606

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 8.2%; Pred. No. 1.5e+03;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 476 AGGAGGAGATGCCCAAG 492
   ||||| :|||
Db 1 AGGAGGAGGUGGCCAAG 17

RESULT 2747
US-11-101-244-1456527/c
; Sequence 1456527, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 134990US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1456527
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1456527

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1089 CTTTGCCTCTCTCTTCT 1105
   ||||| :|||
Db 18 CTTTGCCTCTCTCTTCT 2

RESULT 2748
US-11-101-244-1456528/c
; Sequence 1456528, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 134990US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
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; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1456528
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1456528

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1089 CTTTGCCTCTCTCTTCT 1105
   ||||| :|||
Db 17 CTTTGCCTCTCTCTTCT 1

RESULT 2749
US-11-101-244-1481529
; Sequence 1481529, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 134990US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1481529
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1481529

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 1.5e+03;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACTGT 2268
   ||| :|||
Db 2 CAGUGGCUCACACCU 18

RESULT 2750
US-11-101-244-1489990
; Sequence 1489990, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 134990US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
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; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 148990
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-148990

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 1.5e+03;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACCTGT 2268
DB 1 CAGUGGCGCACACCCUGU 17

RESULT 2751
US-11-101-244-1493498
; Sequence 1493498, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 134990US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1493498
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1493498

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1332 CAAGAACCTGCTCAACA 1348
DB 2 CGAGAACCCGCUCAACA 18

RESULT 2752
US-11-101-244-152565
; Sequence 152565, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 134990US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 152565
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-152565

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 1.5e+03;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 474 GAAGGAGGAGATGGCCA 490
DB 1 GGAGGAGGAGAUGCCA 17

RESULT 2753
US-11-101-244-1542681/c
; Sequence 1542681, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 134990US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1542681
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1542681

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 267 CTCCTGCCTCCTCTCC 283
DB 17 CTCCTGCCTCCACCTCC 1

RESULT 2754
US-11-101-244-1553138/c
; Sequence 1553138, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 134990US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
```

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; SOFTWARE: Proprietary
; SEQ ID NO 1553138
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1553138

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 270 CTGCTCTCTCTCTCTCTCC 286
Db 18 CTTCTCTCTCTCTCTCTCC 2

RESULT 2755
US-11-101-244-1553303/c
; Sequence 1553303, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1553303
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1553303

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1873 AAACGAAAGAAGCATGT 1889
Db 19 AAACCAAGAAGCATGT 3

RESULT 2756
US-11-101-244-1553330/c
; Sequence 1553330, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
```

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; SEQ ID NO 1553330
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1553330

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1873 AAACGAAAGAAGCATGT 1889
Db 18 AAACCAAGAAGCATGT 2

RESULT 2757
US-11-101-244-1556320
; Sequence 1556320, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1556320
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1556320

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 1.5e+03;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 122 ACCTCTGCTCTCCCTA 138
Db 2 ACCUCCUGCCUCCUA 18

RESULT 2758
US-11-101-244-1583810
; Sequence 1583810, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1583810
```

```
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1583810

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 1.5e+03;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 2252 CAGTGTCTCACACGTGT 2268
    |||||:|||||:|
Db 1 CAGUGGCUACACCGU 17

RESULT 2759
US-11-101-244-185600/c
; Sequence 185600, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 185600
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-185600

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2689 TTCTTCTGACCATGTT 2705
    |||||:|||||:|
Db 19 TTCTTCTGACCATGTT 3

RESULT 2760
US-11-101-244-228473
; Sequence 228473, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 228473
; LENGTH: 19
; TYPE: RNA

; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-228473

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1868 CCAAGAAACGAAAGAAG 1884
    |||||:|||||:|
Db 1 CCAGAAACUAAAGAAG 17

RESULT 2761
US-11-101-244-228540
; Sequence 228540, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 228540
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-228540

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1868 CCAAGAAACGAAAGAAG 1884
    |||||:|||||:|
Db 2 CCAGAAACUAAAGAAG 18

RESULT 2762
US-11-101-244-229662/c
; Sequence 229662, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 229662
; LENGTH: 19
; TYPE: RNA
```

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; ORGANISM: Homo sapiens
US-11-101-244-229662

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1910 AGTCACCCATTACTGC 1926
    |||||
Db 17 AGTCACCCATTACTGC 1

RESULT 2763
US-11-101-244-239502/c
; Sequence 239502, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 239502
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-239502

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1100 TCTTCTTCATCTTGTC 1116
    |||||
Db 18 TCTCCTTCATCTTGTC 2

RESULT 2764
US-11-101-244-239577/c
; Sequence 239577, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 239577
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-239577

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1100 TCTTCTTCATCTTGTC 1116
    |||||
Db 18 TCTCCTTCATCTTGTC 2

RESULT 2765
US-11-101-244-246941
; Sequence 246941, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 246941
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-246941

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 2310 AACATATGCCATGCTGA 2326
    |||||
Db 2 AACUAUGACCAUGCUGA 18

RESULT 2766
US-11-101-244-265992
; Sequence 265992, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 265992
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-265992

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```
Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 64.7%; Pred. No. 1.5e+03;
Matches 11; Conservative 5; Mismatches 1; Indels 0; Gaps 0;
```

**QY**      1036 ATGTGGCGCTCTTCA 1052  
          | : | | | | : : : |  
**Dd**         2 AUGUGGCCCCUCUCA 18

```

RESULT 2767
US-11-101-244-266150
US-11-101-244-266150, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266150
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266150

```

```
Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

Qy 1649 ACCACACCGACTTCAAG 1665  
||||| : : |||  
Db 3 ACCACACCUUUAAG 19

```

RESULT 2768
US-11-101-244-266159
; Sequence 266159, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266159
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266159

```

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 88.2%; Pred. No. 1.5e+03;  
Matches 15; Conservative 1; Mismatches 1. Indels

QY 1858 CAGAAAGCTTCCCAAGAA 1874  
|||||:|||||  
Db 1 CAGAAGCTGCCCCAAGAA 17

```

RESULT 2769
US-11-101-244-266171
; Sequence 266171, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Khavrova, Inc.
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Reynolders, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 266171
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-266171

```

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 58.8%; Pred. NO. 1.5e+03;  
Matches 10; Conservative 6; Mismatches 1; Indels

Qy 1822 AACTTTGGTATGTACTA 1838  
 |||::|||::|::|:  
 Db 2 AACUUUGGCAUGUACUA 18

```

RESULT 2770
US-11-101-244-269922
; Sequence 269922, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 269922
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-269922

```

Query Match 0.5%; Score 15.4; DB 1; Length 19;

Best Local Similarity 70.6%; Pred. No. 1.5e+03;  
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;  
QY 2252 CAGTGTCTCACACCTGT 2268  
||| | : ||||| :  
Db 2 CAGUGGCUACACCUUG 18

RESULT 2771  
US-11-101-244-271291  
; Sequence 271291, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 271291  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-271291

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 58.8%; Pred. No. 1.5e+03;  
Matches 10; Conservative 6; Mismatches 1; Indels 0; Gaps 0;  
QY 1345 AACATCATCGACTTGT 1361  
||| | : ||||| :  
Db 2 AACAUUUGACUUUG 18

RESULT 2772  
US-11-101-244-277787/c  
; Sequence 277787, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 277787  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-277787

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1403 TGTCTCCAAAGCAGCT 1419  
||| | : ||||| :  
Db 19 TGTCTTCCAAGGCAGCT 3

RESULT 2773  
US-11-101-244-283855/c  
; Sequence 283855, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 283855  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-283855

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1354 GACTTTGTGCCATCTT 1370  
||| | : ||||| :  
Db 18 GACTTTGTGCCAGCTT 2

RESULT 2774  
US-11-101-244-283963/c  
; Sequence 283963, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 283963  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-283963

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;



QY 1354 GACTTTGTGGCCATCTT 1370  
|||||  
Db 18 GACTTTGTGGCCATCTT 2

RESULT 2775  
US-11-101-244-292890/c  
; Sequence 292890, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 292890  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-292890

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1096 TCTCTCTTCTCATCTT 1112  
|||||  
Db 19 TCTCTCTTCTCATCTT 3

RESULT 2776  
US-11-101-244-352582  
; Sequence 352582, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 352582  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-352582

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 88.2%; Pred. No. 1.5e+03;  
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 476 AGGAGGAGATGCCCAAG 492  
|||||  
Db 1 AGGAGGAGATGCCCAAG 17

RESULT 2777  
US-11-101-244-362300/c  
; Sequence 362300, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 362300  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-362300

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 64 TTGCCTCAACCTTCTGA 80  
|||||  
Db 17 TTGTCTCAACCTTCTGA 1

RESULT 2778  
US-11-101-244-39894/c  
; Sequence 39894, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 39894  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-39894

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 944 AGCGGAGTTGGCCTTG 960



RESULT 2783  
US-11-101-244-412299/c  
; Sequence 412299, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 412299  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-412299

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 117 TCTTCACTCTCTGCTTC 133  
|||||  
DB 18 TCTTCACTCTCTGCTTC 2

RESULT 2784  
US-11-101-244-412409  
; Sequence 412409, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 412409  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-412409

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 2363 AAAGACAGACGACAGCA 2379  
|||||  
DB 3 AAAGACAGACGACGACAGCA 19

RESULT 2785  
US-11-101-244-412608  
; Sequence 412608, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 412608  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-412608

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 2363 AAAGACAGACGACAGCA 2379  
|||||  
DB 3 AAAGACAGACGACGACAGCA 19

RESULT 2786  
US-11-101-244-425420/c  
; Sequence 425420, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 425420  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-425420

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 267 CTCCTGCCTCTCTCTCC 283  
|||||  
DB 17 CTCCTGCCTCTCTCTCTCC 1

```
RESULT 2787
US-11-101-244-426482
; Sequence 426482, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 426482
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-426482

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2360 GAGAAAGACAGACAGAC 2376
Db      ||||| ||||| ||||| |||||
        2 GAGAAAGAUAGACAGAC 18

RESULT 2788
US-11-101-244-455365
; Sequence 455365, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 455365
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-455365

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 1.5e+03;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 1336 AACCTGCTCAACATCAT 1352
Db      ||| :||| ||||| :|||
        3 AACUUGCUCACAUCAU 19

RESULT 2789
US-11-101-244-456787
; Sequence 456787, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 456787
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-456787

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1332 CAAGAACCTGCTCAACA 1348
Db      ||||| ||||| ||||| |||||
        2 CAAGAAACUGCUCACAA 18

RESULT 2790
US-11-101-244-456787
; Sequence 456787, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 456787
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-456787

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1332 CAAGAACCTGCTCAACA 1348
Db      ||||| ||||| ||||| |||||
        1 CAAGAAACUGCUCACAA 17

RESULT 2791
US-11-101-244-458436/c
```

```
; Sequence 458436, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; PRIOR FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 458436
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-458436

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 270 CTGCTCTCTCTCTCTCC 286
Db 18 CTTCTCTCTCTCTCTCC 2

RESULT 2792
US-11-101-244-458533/c
; Sequence 458533, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 458533
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-458533

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 270 CTGCTCTCTCTCTCTCC 286
Db 18 CTTCTCTCTCTCTCTCC 2

RESULT 2793
US-11-101-244-459976
; Sequence 459976, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 459976
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-459976

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1101 CTTCTTCATCTTGGTCT 1117
Db 17 CTTCTTCATCTTGGTCT 1

RESULT 2795
US-11-101-244-465045/c
; Sequence 465045, Application US/11101244
; Publication No. US20050246794A1
```

```
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 465045
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-465045
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1100 TCTTCTTCATCTTGGTC 1116
||||| ||||| |||||
Db 18 TCTTCATCATCTTGGTC 2
```

```
RESULT 2796
US-11-101-244-466868/c
; Sequence 466868, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 466868
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-466868
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 6 CTTCTCTGCTCTTCTGG 22
||||| ||||| |||||
Db 17 CTTCTGTCCTTCTGG 1
```

```
RESULT 2797
US-11-101-244-467178
; Sequence 467178, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
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; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 467178
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-467178
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 1.5e+03;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1337 ACCTGCTCAACATCATC 1353
||||| ||||| |||||
Db 2 ACCUGCUCAAGAUAUC 18
```

```
RESULT 2798
US-11-101-244-505210/c
; Sequence 505210, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 505210
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-505210
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 2257 TCTCACACCTGTGCTCT 2273
||||| ||||| |||||
Db 19 TCTCACACCGTGCTCT 3
```

```
RESULT 2799
US-11-101-244-511326/c
; Sequence 511326, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
```

```
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 511326
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-511326

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 270 CTGCTCTCTCTCTCTCC 286
Db 18 CTGCTCTCTCTCTCTCC 2

RESULT 2800
US-11-101-244-520089/c
; Sequence 520089, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 520089
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-520089

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 293 TCCTCTCTCTCTCTCGTC 309
Db 18 TCCTCTCTCTCTCTCGTC 2

RESULT 2801
US-11-101-244-570542
; Sequence 570542, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
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; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 570542
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-570542

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1332 CAAGAACCTGCTCAACA 1348
Db 2 CAAGAACCTGCTCAACA 18

RESULT 2802
US-11-101-244-570550
; Sequence 570550, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 570550
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-570550

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1332 CAAGAACCTGCTCAACA 1348
Db 3 CAAGAACCTGCTCAACA 19

RESULT 2803
US-11-101-244-584689
; Sequence 584689, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
```

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; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 584689
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-584689
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.8%; Pred. No. 1.5e+03;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 2252 CAGTGTCTCACACTGCT 2268
||||| |.|||||:
Db 1 CAGUGGCUACACCUGU 17
```

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RESULT 2804
US-11-101-244-586620/c
; Sequence 586620, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 586620
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-586620
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 288 CCACCTCCTCTCTCTTC 304
||||| |.|||||
Db 17 CCAGTCTCTCTCTCTTC 1
```

```
RESULT 2805
US-11-101-244-601713/c
; Sequence 601713, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
```

```
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 601713
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-601713
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1094 CCTCTCTCTTTCATC 1110
||||| |.|||||
Db 17 CTCTCTCTTTCATC 1
```

```
RESULT 2806
US-11-101-244-632280
; Sequence 632280, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 632280
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-632280
```

```
Query Match 0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 41.2%; Pred. No. 1.5e+03;
Matches 7; Conservative 9; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 675 CTGTGAGTTCTTCTTTG 691
||. |||||:|:|:|
Db 2 CUCUGAGUUCUUCUUG 18
```

```
RESULT 2807
US-11-101-244-664361/c
; Sequence 664361, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
```



Query Match	0.5%	Score 15.4;	DB 1;	Length 19;
Best Local Similarity	82.4%;	Pred. No. 1.5e+03;		
Matches 14;	Conservative	2;	Mismatches 1;	Indels 0;
				Gaps 0;

1951 GACAGCACCCTACAGTGA 1967  
 |||||:||||:  
 3 GAGAGCACCUACAGUGA 19  
 Db

RESULT 2810  
US-11-101-244-671953/c  
; Sequence 671953, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:

; APPLICANT: Dnarmacon, Inc.  
 ; APPLICANT: Kivorova, Anastasia  
 ; APPLICANT: Reynolds, Angela  
 ; APPLICANT: Leake, Devin  
 ; APPLICANT: Marshall, William  
 ; APPLICANT: Scaringe, Stephen

FILE REFERENCE: 13499US  
CURRENT APPLICATION NUMBER: US/11/101 244

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; CURRENT AFFILIATION NUMBER: 050711/101/24
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 671953
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-671953

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Query Match	0.5%	Score 15.4;	DB 1;	Length 19;
Best Local Similarity	94.1%	Pred. No. 1.5e+03;		
Matches 16;	Conservative	0;	Mismatches 1;	Indels 0;
				Gaps 0;

Qy 1422 AGAGGCTGCTGGGCTTTCC 1433  
|||||  
Db 17 AGATGTGCTGGGCTTTCC 1

US-11-101-244-672564  
; Sequence 672564, Application US/11101244  
; Publication No. US20050246794A1  
: GENERAL INFORMATION.

```

; APPLICANT: DYNAMICOM, INC.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

```

```
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 672564
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-672564

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 1.5e+03;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2279 CACAGAGACCTGCCAAG 2295
      |||||:|||||
Db 1 CAGAGAGACCGCCAAG 17

RESULT 2812
US-11-101-244-714924
; Sequence 714924, Application US/11/101,244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 714924
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-714924

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 76.5%; Pred. No. 1.5e+03;
Matches 13; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1228 GAAACAGAACCACTTCT 1244
      |||||:|||||
Db 2 GAAACAGAACCAUUTU 18

RESULT 2813
US-11-101-244-737785/c
; Sequence 737785, Application US/11/101,244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
```

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; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 737785
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-737785

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2688 GTTCTTCTGACCATGT 2704
      |||||:|||||
Db 18 GTTCTTCTGACCATGT 2

RESULT 2814
US-11-101-244-740737
; Sequence 740737, Application US/11/101,244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 740737
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-740737

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1860 GAAGCTTCCCAAGAAAC 1876
      |||||:|||||
Db 1 GAAGCUCCUAGAAAC 17

RESULT 2815
US-11-101-244-759724/c
; Sequence 759724, Application US/11/101,244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
```

```
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 759724
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-759724

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 293 TCCTCCTCCTCTCGTC 309
Db 18 TCCTCCTCCTCCTCGTC 2

RESULT 2816
US-11-101-244-767058
; Sequence 767058, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 767058
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-767058

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 150 CCAATCCCAACCACT 166
Db 1 CCAAAUCCAAACCACT 17

RESULT 2817
US-11-101-244-767157
; Sequence 767157, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
```

```
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 767157
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-767157

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 150 CCAATCCCAACCACT 166
Db 1 CCAAAUCCAAACCACT 17

RESULT 2818
US-11-101-244-771069
; Sequence 771069, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 771069
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-771069

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 70.6%; Pred. No. 1.5e+03;
Matches 12; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 2797 AGTGGCCTGCTGAAGT 2813
Db 2 AGUGGCCUGCUGGAGU 18

RESULT 2819
US-11-101-244-795065
; Sequence 795065, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
```

```
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 795065
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-795065

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 52.9%; Pred. No. 1.5e+03;
Matches 9; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

Qy 763 GTCGTGGGCTCTCTT 779
      |:|:|:| |:|:|:|
Db 2 GUCUGGGCCUCUCU 18

RESULT 2820
US-11-101-244-795845/c
; Sequence 795845, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 134990US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 795845
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-795845

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1095 CTCCTCTCTTCTCATCT 1111
      ||| ||| ||| ||| |||
Db 18 CTTTCTCTTCTCATCT 2

RESULT 2821
US-11-101-244-806564/c
; Sequence 806564, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 134990US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10

; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 806564
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-806564

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 293 TCCTCTCTCTTCTCGTC 309
      ||| ||| ||| ||| |||
Db 18 TCCTCTCTCTCTCGTC 2

RESULT 2822
US-11-101-244-806581/c
; Sequence 806581, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 134990US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 806581
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-806581

Query Match      0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 293 TCCTCTCTCTTCTCGTC 309
      ||| ||| ||| ||| |||
Db 18 TCCTCTCTCTCTCGTC 2

RESULT 2823
US-11-101-244-823169/c
; Sequence 823169, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 134990US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
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; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 823169
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-823169

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1328 TTGTCAAGAACCTGCTC 1344
      ||||| ||||| |||||
Db 19 TTGTGAAGAACCTGCTC 3

RESULT 2824
US-11-101-244-836335/c
; Sequence 836335, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101.244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 836335
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-836335

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1878 AAAGAAGCATGTACCAC 1894
      ||||| ||||| |||||
Db 18 AAAGAAGCATGTACCAC 2

RESULT 2825
US-11-101-244-847666
; Sequence 847666, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101.244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 847666
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-847666

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 1.5e+03;
Matches 14; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2448 GCACAAGACTGCTGGAA 2464
      ||||| ||||| |||||
Db 1 GCACAAGACTGCTGGAA 17

RESULT 2826
US-11-101-244-848809/c
; Sequence 848809, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101.244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 848809
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-848809

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2325 GAAGTCCTCACCCTCTC 2341
      ||||| ||||| |||||
Db 19 GAAGTCCTCACCCTTTC 3

RESULT 2827
US-11-101-244-848906/c
; Sequence 848906, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101.244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
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; SOFTWARE: Proprietary
; SEQ ID NO 849106
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-849106

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2325 GAAGTCCTCACCCCTCTC 2341
Db 19 GAAGTCCTCACCCCTTC 3

RESULT 2828
US-11-101-244-849009/c
; Sequence 849009, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 849009
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-849009

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2325 GAAGTCCTCACCCCTCTC 2341
Db 19 GAAGTCCTCACCCCTTC 3

RESULT 2829
US-11-101-244-849106/c
; Sequence 849106, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 849106
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-849106

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 94.1%; Pred. No. 1.5e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2325 GAAGTCCTCACCCCTCTC 2341
Db 19 GAAGTCCTCACCCCTTC 3

RESULT 2830
US-11-101-244-858131
; Sequence 858131, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 858131
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-858131

Query Match          0.5%; Score 15.4; DB 1; Length 19;
Best Local Similarity 98.2%; Pred. No. 1.5e+03;
Matches 15; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 477 GGAGGAGATGGCCCAAGG 493
Db 2 GGAGGAGGUGGCCCAAGG 18

RESULT 2831
US-11-101-244-865005
; Sequence 865005, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 865005
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[illegible]

; ORGANISM: Homo sapiens  
US-11-101-244-991372

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 283 CTCACACCTCTCTCT 299  
DB 17 CTCACACCTCTCTCAT 1

RESULT 2836

US-11-101-244-99295  
; Sequence 99295, Application US/11101244  
; Publication No. US20050246794A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/101,244  
; CURRENT FILING DATE: 2005-04-07  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 99295  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens

US-11-101-244-99295

Query Match 0.5%; Score 15.4; DB 1; Length 19;  
Best Local Similarity 94.1%; Pred. No. 1.5e+03;  
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1867 CCCAAGAACGAAAGAA 1883  
DB 1 CCCAAGAACCAAGAA 17

RESULT 2837

US-10-310-914A-1030800/c  
; Sequence 1030800, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1030800  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human

US-10-310-914A-1030800

Query Match 0.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 1.5e+03;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 657 CAGCGCGCGCGCGG 671

DB 15 CAGCGCGCGCGCGG 1

RESULT 2838  
US-10-310-914A-105781/c  
; Sequence 105781, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 105781  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human

US-10-310-914A-105781

Query Match 0.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 1.5e+03;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGG 670  
DB 16 GCAGCGCGCGCGCGG 2

RESULT 2839

US-10-310-914A-1074411/c  
; Sequence 1074411, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1074411  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human

US-10-310-914A-1074411

Query Match 0.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 1.5e+03;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 637 GGTGCGCGCAGCAGC 651  
DB 16 GGTGCGCGCAGCAGC 2

RESULT 2840

US-10-310-914A-108019/c  
; Sequence 108019, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A



; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 108019  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-108019

Query Match 0.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 1.5e+03;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 208 GGGGGTGGGTGGGG 222  
|||||:|||||  
Db 15 GGGGGTGGGTGGGG 1

RESULT 2841  
US-10-310-914A-1219678  
; Sequence 1219678, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvazat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1219678  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1219678

Query Match 0.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 86.7%; Pred. No. 1.5e+03;  
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 210 GGGTGGGTGGGGGG 224  
|||||:|||||  
Db 4 GGGUGGGUGGGGGG 18

RESULT 2842  
US-10-310-914A-1219679  
; Sequence 1219679, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvazat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1219679  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1219679

Query Match 0.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 86.7%; Pred. No. 1.5e+03;  
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 210 GGGTGGGTGGGGGG 224  
|||||:|||||

Db 4 GGGUGGGUGGGGGG 18

RESULT 2843  
US-10-310-914A-128605  
; Sequence 128605, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvazat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 128605  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-128605

Query Match 0.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 86.7%; Pred. No. 1.5e+03;  
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2730 ACCTGGGACCTGCCCC 2744  
|||||:|||||  
Db 2 ACCUGGGACCGCCCC 16

RESULT 2844  
US-10-310-914A-1353070/c  
; Sequence 1353070, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvazat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1353070  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1353070

Query Match 0.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 1.5e+03;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 764 TCTGTGGGCTCTCT 778  
|||||:|||||  
Db 18 TCTGTGGGCTCTCT 4

RESULT 2845  
US-10-310-914A-1377945/c  
; Sequence 1377945, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvazat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06

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; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1377945
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1377945

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Query Match 0.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 1.5e+03;  
Matches 15; Conservative 0; Mismatches 0; Indels

Qy 308 TCTCCTCCCCCTCC 322  
|||  
pb 16 TCTCCTCCCCCTCC 2

RESULT 2846  
US-10-310-914A-1385190/c  
; Sequence 1385190, Application US/10310914A  
; Publication No. US20060003322A1

```

: APPLICANT: Bentwich, Isaac
: APPLICANT: Shiller, Kruczak
: TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
: TITLE OF INVENTION: uses thereof
: FILE REFERENCE: 06087.0200.CPUS01
: CURRENT APPLICATION NUMBER: US/10/310,914A
: CURRENT FILING DATE: 2002-12-06
: NUMBER OF SEQ ID NOS: 1388402
: SOFTWARE: PatentIn version 3.3

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Query Match 0.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 1.5e+03;  
Matches 15; Conservative 0; Mismatches 0; Indels

Qy 659 GCGGCGGCGGGG 673  
pb 17 GCGGCGGCGGGG 3

RESULT 2847  
US-10-310-914A-186703/c  
; Sequence 186703, Application US/10310914A  
; Publication No. US2006000332A1

```

; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzať
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 186703

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Query Match 0.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 1.5e+03;  
Matches 15; Conservative 0; Mismatches 0; Indels

Qy 644 GCAGCAGCGGCAGCA 658  
db 15 GCAGCAGCGGCAGCA 1

RESULT 2848  
US-10-310-914A-186950/c  
; Sequence 186950, Application US/10310914A  
; PublicationNo. US20060003322A1

```

/ APPLICANT: Bentwich, Isaac
/ APPLICANT: Shiler, Kvuzat
/ TITLE OF INVENTION: Bioinformatically detected
/ FILE OF INVENTION: uses thereof
/ FILE REFERENCE: 06087.0200.CPUS01
/ CURRENT APPLICATION NUMBER: US/10/310,914A
/ CURRENT FILING DATE: 2002-12-06
/ NUMBER OF SEQ ID NOS: 1388402
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 186950
/ LENGTH: 18
/ TYPE: RNA
/ ORGANISM: Human
US-10-310-914A-186950

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Query Match	0.5%	Score 15;	DB 1;	Length 18;
Best Local Similarity	100.0%;	Pred. No. 1.5e+03;		
Matches 15;	Conservative	0;	Mismatches 0;	Indels 0;
Gaps	0;			

Qy 211 GGTGGGGTGGGGGG 225  
pb 18 GGTGGGGTGGGGGG 4

RESULT 2849  
US-10-310-914A-186951/c  
; Sequence 186951, Application US/10310914A  
; Publication No. US20060003322A1

```

% ORGANIZATION:
% APPLICANT: Bentwich, Isaac
% APPLICANT: Shlier, Kivrat
% TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
% TITLE OF INVENTION: uses thereof
% FILE REFERENCE: 06087.0200.CPUS01
% CURRENT APPLICATION NUMBER: US/10/310,914A
% CURRENT FILING DATE: 2002-12-06
% NUMBER OF SEQ ID NOS: 1388402
% SOFTWARE: PatentIn version 3.3
% SEQ ID NO 186951
% LENGTH: 18
%

```

Query Match 0.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 1.5e+03;  
Matches 15: Conservative 0; Mismatches 0; Indels

QY 211 GGTGGGTGGGGGG 225  
|||  
pb 18 GGTGGGTGGGGGG 4

RESULT 2850  
US-10-310-914A-271904  
; Sequence 271904, Application US/10310914A  
; Publication No. US20060003322A1

```

? APPLICANT: Bentwich, Isaac
? APPLICANT: Shilar, Kruzat
? TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
? TITLE OF INVENTION: uses thereof
? FILE REFERENCE: 06087, 0200 CPUS01
? CURRENT APPLICATION NUMBER: US/10/310,914A
? CURRENT FILING DATE: 2002-12-06
? NUMBER OF SEQ. ID NOS.: 1388402

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; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 271904  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-271904

Query Match 0.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 1.5e+03;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 659 GCGGCGGCGCGGG 673  
||| ||||| ||||| |||||  
Db 2 GCGGCGGCGCGGG 16

RESULT 2851  
US-10-310-914A-333050/c  
; Sequence 333050, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 333050  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-333050

Query Match 0.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 1.5e+03;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2659 TTTCCCCACCCCTC 2673  
||| ||||| ||||| |||||  
Db 17 TTTCCCCACCCCTC 3

RESULT 2852  
US-10-310-914A-351185  
; Sequence 351185, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 351185  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-351185

Query Match 0.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 1.5e+03;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGGG 670  
||| ||||| ||||| |||||  
Db 3 GCAGCGCGCGGG 17

RESULT 2853  
US-10-310-914A-422804/c  
; Sequence 422804, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 422804  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-422804

Query Match 0.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 1.5e+03;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGGG 667  
||| ||||| ||||| |||||  
Db 18 GCAGCAGCGCGGG 4

RESULT 2854  
US-10-310-914A-437056  
; Sequence 437056, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 437056  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-437056

Query Match 0.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 1.5e+03;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 657 CAGCGCGCGCGGG 671  
||| ||||| ||||| |||||  
Db 3 CAGCGCGCGCGGG 17

RESULT 2855  
US-10-310-914A-459800  
; Sequence 459800, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 459800  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-459800

Query Match 0.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 73.3%; Pred. No. 1.5e+03;  
Matches 11; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 2659 TTTCCCCACCCCTC 2673  
:::|||||||:  
Db 2 UUUCCCCCCCCUC 16

## RESULT 2856

US-10-310-914A-464317/c  
; Sequence 464317, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 464317  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-464317

Query Match 0.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 1.5e+03;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1097 CTCCTCTTCATCT 1111  
|||||||:  
Db 16 CTCCTCTTCATCT 2

## RESULT 2857

US-10-310-914A-481577  
; Sequence 481577, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 481577  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-481577

Query Match 0.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 86.7%; Pred. No. 1.5e+03;  
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 975 CCATGAAGAGGCTC 989  
|||||||:  
Db 2 CCAUGAAGAGGCTC 16

## RESULT 2858

US-10-310-914A-526216  
; Sequence 526216, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 526216  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-526216

Query Match 0.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 86.7%; Pred. No. 1.5e+03;  
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 207 GGGGGGTGGGTGGG 221  
|||||||:  
Db 1 GGGGGGTGGGTGGG 15

## RESULT 2859

US-10-310-914A-544644/c  
; Sequence 544644, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 544644  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-544644

Query Match 0.5%; Score 15; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 1.5e+03;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2732 CTGGACCTGCCCT 2746  
|||||||:  
Db 15 CTGGACCTGCCCT 1

## RESULT 2860

US-10-310-914A-554096  
; Sequence 554096, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 554096

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; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-554096

Query Match          0.5%; Score 15; DB 1; Length 18;
Best Local Similarity 86.7%; Pred. No. 1.5e+03;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 209 GGGGTGGGGTGGGG 223
      |||||:|||||
Db 4 GGGGUGGGUGGGGG 18

RESULT 2861
US-10-310-914A-624967
; Sequence 624967, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 624967
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-624967

Query Match          0.5%; Score 15; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.5e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 658 AGCGGCGGGCGGGG 672
      |||||:|||||
Db 3 AGCGGCGGGCGGGG 17

RESULT 2862
US-10-310-914A-671586/c
; Sequence 671586, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 671586
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-671586

Query Match          0.5%; Score 15; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.5e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 290 ACCTCTCTCTCTTC 304
      |||||:|||||
Db 15 ACCTCTCTCTCTTC 1

RESULT 2863
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US-10-310-914A-696297
; Sequence 696297, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 696297
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-696297

Query Match          0.5%; Score 15; DB 1; Length 18;
Best Local Similarity 80.0%; Pred. No. 1.5e+03;
Matches 12; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 309 CTCCTCCCTCTCCC 323
      |:|:|||||:||||
Db 4 CUCCUCCGCCUCCCC 18

RESULT 2864
US-10-310-914A-69826
; Sequence 69826, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 69826
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-69826

Query Match          0.5%; Score 15; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.5e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 894 GGACGGGGCGGGGG 908
      |||||:|||||
Db 3 GGACGGGGCGGGGG 17

RESULT 2865
US-10-310-914A-699834
; Sequence 699834, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 699834
; LENGTH: 18
```

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; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-699834

Query Match          0.5%; Score 15; DB 1; Length 18;
Best Local Similarity 80.0%; Pred. No. 1.5e+03;
Matches 12; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 2464 AAAATCTCCATGCA 2478
      |||||:|||||
Db 4 AAAAUCUCCCAUGCA 18

RESULT 2866
US-10-310-914A-706052
; Sequence 706052, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 706052
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-706052

Query Match          0.5%; Score 15; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.5e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 645 CACGAGCGGCGAG 659
      |||||:|||||
Db 1 CAGCAGCGGCGAG 15

RESULT 2867
US-10-310-914A-706166/c
; Sequence 706166, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 706166
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-706166

Query Match          0.5%; Score 15; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.5e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 209 GCGGTGGGTGGGG 223
      |||||:|||||
Db 18 GGGGTGGGTGGGG 4

RESULT 2868
US-10-310-914A-708368/c
; Sequence 708368, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 708368
; LENGTH: 18
; TYPE: RNA
US-10-310-914A-708368

Query Match          0.5%; Score 15; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.5e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 123 CCTCTGCTCCCT 137
      |||||:|||||
Db 1 CCUCCUGCCUCCCU 15

RESULT 2870
US-10-310-914A-871147
; Sequence 871147, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 871147
; LENGTH: 18
; TYPE: RNA
US-10-310-914A-871147
```

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; ORGANISM: Human
US-10-310-914A-871147

Query Match          0.5%; Score 15; DB 1; Length 18;
Best Local Similarity 80.0%; Pred. No. 1.5e+03;
Matches 12; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 309 CTCCTCCCTCCCTCC 323
   |||:|||||:|||||
Db 4 CUCCUCCUCCUCCUCC 18

RESULT 2871
US-10-310-914A-911470/c
; Sequence 911470, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 911470
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-911470

Query Match          0.5%; Score 15; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.5e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 309 CTCCTCCCTCCCTCC 323
   |||:|||||:|||||
Db 16 CTCCTCCCTCCCTCC 2

RESULT 2872
US-10-310-914A-935979/c
; Sequence 935979, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 935979
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-935979

Query Match          0.5%; Score 15; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 1.5e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2393 AGGAAACTCTCGAA 2407
   |||:|||||:|||||
Db 17 AGGAAACTCTCGAA 3

RESULT 2873
US-10-310-914A-188845/c
; Sequence 188845, Application US/10310914A
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; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 188845
; LENGTH: 23
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-188845

Query Match          0.5%; Score 15; DB 1; Length 23;
Best Local Similarity 78.3%; Pred. No. 2.6e+03;
Matches 18; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 895 GACGGGGCGGGGTGGCGCAGG 917
   |||:|||||:|||||
Db 23 GAAGGAGCGGTGGTGGAGGAGG 1

RESULT 2874
US-10-310-914A-186959
; Sequence 186959, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 186959
; LENGTH: 25
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-186959

Query Match          0.5%; Score 15; DB 1; Length 25;
Best Local Similarity 78.3%; Pred. No. 3e+03;
Matches 18; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 550 CGCAGCACCTCGCGCACCTACC 572
   |||:|||||:|||||
Db 1 CCCAGCACCTCGCGCACCTACC 23

RESULT 2875
US-11-136-527-354242/c
; Sequence 354242, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 354242
; LENGTH: 25
; TYPE: DNA
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; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Probe
US-11-136-527-354242

Query Match      0.5%; Score 15; DB 1; Length 25;
Best Local Similarity 78.3%; Pred. No. 3e+03;
Matches 18; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 8 TCTCTCTCTTCTCGGGTTGGG 30
Db 23 TGTCTCTCTTCTCAGTTGGT 1

RESULT 2876
US-10-310-914A-1002240/c
; Sequence 1002240, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1002240
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1002240

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
Db 18 CGCGCGCGCGCGCGCGG 1

RESULT 2877
US-10-310-914A-1002241/c
; Sequence 1002241, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1002241
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1002241

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
Db 18 CGCGCGCGCGCGCGCGG 1

RESULT 2878
US-10-310-914A-1002188/c
; Sequence 1002188, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1002188
; LENGTH: 18
; ORGANISM: Human
US-10-310-914A-1002188/c

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
Db 18 CGCGCGCGCGCGCGCGG 1

RESULT 2879
US-10-310-914A-1010135
; Sequence 1010135, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1010135
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1010135

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 674
Db 1 CGCGCGCGCGCGCGGUGG 18

RESULT 2880
US-10-310-914A-1022188/c
; Sequence 1022188, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1022188
; LENGTH: 18
; ORGANISM: Human
US-10-310-914A-1022188/c
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; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1022188

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2555 TATCTATATTCATACATA 2572
      ||| ||||| ||||| |||||
Db 18 TATGTATATACATACATA 1

RESULT 2881
US-10-310-914A-1023948/c
; Sequence 1023948, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1023948
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1023948

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGCGCG 665
      ||| ||||| ||||| |||||
Db 18 CAGCGGCAGCAGCGCGCGG 1

RESULT 2882
US-10-310-914A-1040133
; Sequence 1040133, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1040133
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1040133

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 1.6e+03;
Matches 15; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 218 TGGGGGGGAGGAGGAGGCGC 235
      :||| ||||| ||||| |||
Db 1 UGGGGGAGGAGGAGGAGGCGC 18

RESULT 2883
US-10-310-914A-1042945/c
; Sequence 1042945, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1042945
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1042945

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 219 GGGGGGAGGAGGAGGCGCA 236
      ||| ||||| ||||| |||||
Db 18 GGTGGGGAGGAGGAGGCGCA 1

RESULT 2884
US-10-310-914A-1047237
; Sequence 1047237, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1047237
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1047237

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 66.7%; Pred. No. 1.6e+03;
Matches 12; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 271 TGCCTCTCTCTCTCTCCAC 288
      :||| :||| :||| :|||
Db 1 UGCAUCCACCUCUCCUCCAC 18

RESULT 2885
US-10-310-914A-1052556
; Sequence 1052556, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1052556
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1052556

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; ORGANISM: Human
US-10-310-914A-1052556

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 50.0%; Pred. No. 1.6e+03;
Matches 9; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

QY 1573 GGTGCTCATCTTTGCC 1590
      ||:||||:|:|:|
Db 1 GCUCUGCAUCUUUGCC 18

RESULT 2886
US-10-310-914A-1053728
; Sequence 1053728, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1053728
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1053728

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGGG 673
      |||||||
Db 1 GCGGCGCGCGCGCGGAG 18

RESULT 2887
US-10-310-914A-106649/c
; Sequence 106649, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 106649
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-106649

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 647 GCAGCGCGCAGCGCGG 664
      |||||||
Db 18 GCGGCGCGCGCGCGCG 1

RESULT 2888
US-10-310-914A-106733
; Sequence 106733, Application US/10310914A

; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 106733
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-106733

; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 106733
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-106733

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 643 GCAGCAGCGCGCAGCAGC 660
      |||||||
Db 1 GCGGCGCGCGCGCAGCAGC 18

RESULT 2889
US-10-310-914A-1073932/c
; Sequence 1073932, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1073932
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1073932

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2255 TGTCTCACACCTGTGCTC 2272
      |||||||
Db 18 TGGCTCACACCTGTGATC 1

RESULT 2890
US-10-310-914A-107664
; Sequence 107664, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 107664
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-107664
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US-10-310-914A-107664

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 72.2%; Pred. No. 1.6e+03;  
Matches 13; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 2731 CCTGGACCTGCCCTCC 2748  
||:||||:||||:  
Db 1 CCUGGACCCUCCCUCC 18

RESULT 2891

US-10-310-914A-1082993/c  
; Sequence 1082993, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 1082993

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-1082993

Query Match

Best Local Similarity 0.5%; Score 14.8; DB 1; Length 18;

Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 293 TCCTCTCTCTCTCTCTCT 310  
|||||||  
Db 18 TCCTCTCTCTCTCTCTCT 1

RESULT 2892

US-10-310-914A-1085361  
; Sequence 1085361, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 1085361

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-1085361

Query Match

Best Local Similarity 0.5%; Score 14.8; DB 1; Length 18;

Matches 12; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 2165 CTGCTTCTCTGTCAGTG 2182  
||:||||:||||:  
Db 1 CCUGCCUCCUGCCAGUG 18

RESULT 2893

US-10-310-914A-1088844/c  
; Sequence 1088844, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 1088844

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-1088844

Query Match

Best Local Similarity 0.5%; Score 14.8; DB 1; Length 18;

Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 281 TCCTCCACACCTCTCTCC 298  
|||||||  
Db 18 TCCTCTCGGCTCTCTCC 1

RESULT 2894

US-10-310-914A-1089135/c

; Sequence 1089135, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 1089135

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-1089135

Query Match

Best Local Similarity 0.5%; Score 14.8; DB 1; Length 18;

Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGGGG 673  
|||||||  
Db 18 GCGGGGCGCGCGGGG 1

RESULT 2895

US-10-310-914A-1089498/c

; Sequence 1089498, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 1089498

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-1089498



```
Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2255 TGTCTCACACCTGTGCTC 2272
Db 18 TGGCTCACACCTGTGTATC 1

RESULT 2901
US-10-310-914A-1098063
; Sequence 1098063, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1098063
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1098063

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 645 CAGCAGCGGCAGCAGCGG 662
Db 1 CAGCAGCAGCAGCAGCGG 18

RESULT 2902
US-10-310-914A-1100443
; Sequence 1100443, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1100443
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1100443

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 55.6%; Pred. No. 1.6e+03;
Matches 10; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 292 CTCCTCCCTCTCTGCTC 309
Db 1 CCCCUCCUCCUUGUC 18

RESULT 2903
US-10-310-914A-1101763/c
; Sequence 1101763, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
```

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; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1101763
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1101763

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 648 CAGCGCGCAGCAGCGCGG 665
Db 18 CAGCGCGCAGCAGCGGCTG 1

RESULT 2904
US-10-310-914A-1102643/c
; Sequence 1102643, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1102643
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1102643

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1745 CAGGAATCCTGCTGGGTG 1762
Db 18 CAGGCATGCTGCTGGGTG 1

RESULT 2905
US-10-310-914A-1105235/c
; Sequence 1105235, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1105235
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1105235

Query Match      0.5%; Score 14.8; DB 1; Length 18;
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; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 111200
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1111200

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2141 GGCACAGAAACAGGAAGG 2158
||||| ||||| ||||| |||||
DB 18 GCGAGAGAAACAGGAAGG 1

RESULT 2906
US-10-310-914A-1111200/c
; Sequence 1111200, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 111200
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1111200

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1967 ACACGAGCCGCCCTGCC 1984
||||| ||||| ||||| |||||
DB 18 AGACGAGCCGCCCTGCC 1

RESULT 2907
US-10-310-914A-1114805/c
; Sequence 1114805, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1114805
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1114805

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 210 GGGTGGGTGGGGGGGAG 227
||||| ||||| ||||| |||||
DB 18 GGGTGGGTGGGGGGGGG 1

RESULT 2908
US-10-310-914A-1114806/c
; Sequence 1114806, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
```

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; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1114806
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1114806

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 210 GGGTGGGTGGGGGGGAG 227
||||| ||||| ||||| |||||
DB 18 GGGTGGGTGGGGGGGGG 1

RESULT 2909
US-10-310-914A-1115111
; Sequence 1115111, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1115111
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1115111

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 1.6e+03;
Matches 15; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 663 CGCGCGCGGGGGCTGTGA 680
||||| ||||| ||||| |||||
DB 1 CGCGCGCGGGGGGGGUGA 18

RESULT 2910
US-10-310-914A-1127076
; Sequence 1127076, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1127076
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1127076

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 77.8%; Pred. No. 1.6e+03;
```

```
Matches 14; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 213 TGGGGTGGGGGAGGCA 230
      :|||:|||||
Db 1 UGGUGUGGGCGGAGGCA 18

RESULT 2911
US-10-310-914A-1141103/c
; Sequence 1141103, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1141103
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1141103

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGG 223
      |||
Db 18 GGTGGGTGGGTGGGG 1

RESULT 2912
US-10-310-914A-1152540/c
; Sequence 1152540, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1152540
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1152540

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2255 TGTCTCACACCTGTGTC 2272
      |||
Db 18 TGGCTCACACCTGTGTC 1

RESULT 2913
US-10-310-914A-1156632/c
; Sequence 1156632, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
```

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; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1156632
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1156632

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2663 CCCACCCCTCTCTCTTC 2680
      |||
Db 18 CCTCCCTCTCTCTCTTC 1

RESULT 2914
US-10-310-914A-1157615
; Sequence 1157615, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1157615
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1157615

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 66.7%; Pred. No. 1.6e+03;
Matches 12; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 274 CTCCTCTCTCTCCACCAC 291
      |||
Db 1 CUCCUCCUCCUCCUCC 18

RESULT 2915
US-10-310-914A-1157698
; Sequence 1157698, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1157698
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1157698

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 50.0%; Pred. No. 1.6e+03;
Matches 9; Conservative 7; Mismatches 2; Indels 0; Gaps 0;
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[illegible]



QY 651 CGCGACGACGCGCGCGG 668  
Db 18 CGCGCGCGCGCGCGCGG 1  
RESULT 2921  
US-10-310-914A-117755/c  
; Sequence 117755, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 117755  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-117755

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGCGG 673  
Db 18 GCGCGCGCGCGCGCGG 1

RESULT 2922  
US-10-310-914A-117765/c  
; Sequence 117765, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 117765  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-117765

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGG 670  
Db 18 GCGCGCGCGCGCGCGG 1

RESULT 2923  
US-10-310-914A-1179277  
; Sequence 1179277, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1179277  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1179277

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 83.3%; Pred. No. 1.6e+03;  
Matches 15; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 903 CGGGGTGGCGCGCGGCC 920  
Db 1 CGGGGCGCGCGCGGCC 18

RESULT 2924  
US-10-310-914A-1179685/c  
; Sequence 1179685, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1179685  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1179685

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 272 GCCTCTCTCTCTCCACC 289  
Db 18 GGCTCTCTCTCTCCCC 1

RESULT 2925  
US-10-310-914A-1183771/c  
; Sequence 1183771, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1183771  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1183771

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGA 226

```
Db      18 GGAGTGGGGTGGGAGGA 1
      || ||||| ||||| |||||
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1202199
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1202199

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      282 CCTCCACCACCTCTCCT 299
      || ||||| ||||| |||||
Db      18 CCACCACCACCGCTCCT 1
      || ||||| ||||| |||||

RESULT 2929
US-10-310-914A-1224090/c
; Sequence 1224090, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1224090
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1224090

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      223 GGGAGGCAGGGCAGAGC 240
      ||||| ||||| ||||| ||
Db      18 GGGAGGCAGAGCCAGGGC 1
      ||||| ||||| ||||| ||

RESULT 2930
US-10-310-914A-1232544/c
; Sequence 1232544, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1232544
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1232544

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      2255 TGTCTCACACCTGTGCTC 2272
      || ||||| ||||| |||||

Db      18 GGAGTGGGGTGGGAGGA 1
      || ||||| ||||| |||||
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1202199
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1202199

RESULT 2926
US-10-310-914A-1193863
; Sequence 1193863, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1193863
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1193863

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 66.7%; Pred. No. 1.6e+03;
Matches 12; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY      271 TGCCTCTCTCTCTCTCAC 288
      :|| :|| :|| :|| :|| :||
Db      1 UGCAUCCACCUCCUCCAC 18
      :|| :|| :|| :|| :|| :||

RESULT 2927
US-10-310-914A-1201612
; Sequence 1201612, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1201612
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1201612

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 1.6e+03;
Matches 15; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      216 GGTGGGGGGGAGGCAGGG 233
      ||||| ||||| ||||| ||
Db      1 GGUGGCGGGGAGGGAGGG 18
      ||||| ||||| ||||| ||

RESULT 2928
US-10-310-914A-1202199/c
; Sequence 1202199, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
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Db      18 TGGCTCACACCTGTGATC 1

RESULT 2931
US-10-310-914A-1234201/c
; Sequence 1234201, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1234201
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1234201

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1745 CAGGAATGCTGGTGGGTG 1762
      ||||| ||||| ||||| |||||
Db      18 CAGGCATGGTGGTGGGTG 1

RESULT 2932
US-10-310-914A-1234771/c
; Sequence 1234771, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1234771
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1234771

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      208 GGGGGTGGGGTGGGGGGG 225
      ||||| ||||| ||||| |||||
Db      18 GGGGCTGGGGTGGAGGGG 1

RESULT 2933
US-10-310-914A-1234792/c
; Sequence 1234792, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
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; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1234792
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1234792

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      210 GGGTGGGTGGGGGGGAG 227
      ||||| ||||| ||||| |||||
Db      18 GGCTGGGTGGAGGGGAG 1

RESULT 2934
US-10-310-914A-1234997/c
; Sequence 1234997, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1234997
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1234997

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1745 CAGGAATGCTGGTGGGTG 1762
      ||||| ||||| ||||| |||||
Db      18 CAGGCATGGTGGTGGGTG 1

RESULT 2935
US-10-310-914A-1241828/c
; Sequence 1241828, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1241828
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1241828

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      980 AAGGAGGCTTGGCCCTG 997
      ||||| ||||| ||||| |||||
Db      18 AGGAGGCTCGGGCCCTG 1
```

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RESULT 2936
US-10-310-914A-1244842/c
; Sequence 1244842, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1244842
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1244842

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2255 TGTCTCACACCTGTGTC 2272
Db 18 TGGCTCACACCTGTGATC 1

RESULT 2937
US-10-310-914A-1245211/c
; Sequence 1245211, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1245211
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1245211

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2255 TGTCTCACACCTGTGTC 2272
Db 18 TGGCTCACACCTGTGATC 1

RESULT 2938
US-10-310-914A-1245220/c
; Sequence 1245220, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
```

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; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1245220
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1245220

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
Db 18 CGGCAGCGCGCGCGCGG 1

RESULT 2939
US-10-310-914A-1245221/c
; Sequence 1245221, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1245221
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1245221

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
Db 18 CGGCAGCGCGCGCGCGG 1

RESULT 2940
US-10-310-914A-1254417
; Sequence 1254417, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1254417
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1254417

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 1.6e+03;
Matches 15; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 904 GGGGGTGGCGCAGGCCCC 921
Db 1 GGGGGUGGCGCAGGUCAC 18
```

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RESULT 2941
US-10-310-914A-1256008/c
; Sequence 1256008, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuza
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1256008
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1256008

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCGCGCGCGG 668
Db 18 CGGCAGCGCGCGCGG 1

RESULT 2942
US-10-310-914A-1258184
; Sequence 1258184, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuza
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1258184
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1258184

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 282 CCTCCACCACTCTCTCT 299
Db 1 CCUCCACCUCCUCCUCCU 18

RESULT 2943
US-10-310-914A-1259162/c
; Sequence 1259162, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuza
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
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; SEQ ID NO 1259162
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1259162

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2255 TGTCTCACACCTGTGCTC 2272
Db 18 TGGCTCACACCTGTGATC 1

RESULT 2944
US-10-310-914A-1259701
; Sequence 1259701, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuza
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1259701
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1259701

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 66.7%; Pred. No. 1.6e+03;
Matches 12; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 279 CCTCCTCCACCACTCTCT 296
Db 1 CCUCUCCCCCACCUCUCCU 18

RESULT 2945
US-10-310-914A-1263516
; Sequence 1263516, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuza
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1263516
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1263516

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 55.6%; Pred. No. 1.6e+03;
Matches 10; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 288 CCACCTCTCTCTCTCTCT 305
Db 1 CCUCCUCCUCCUCCUCCUCCU 18
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RESULT 2946
US-10-310-914A-1268590/c
; Sequence 1268590, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1268590
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1268590

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGTGGGGTGGGGGGA 226
DB 18 GGGTGGGGGAGGGGGA 1

RESULT 2947
US-10-310-914A-1271187/c
; Sequence 1271187, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1271187
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1271187

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 654 CAGCAGCGCGCGCGG 671
DB 18 CAGCAGCGCGCGCTGCG 1

RESULT 2948
US-10-310-914A-1276563/c
; Sequence 1276563, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1276563
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; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1276563

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2644 CCTGTGCCACCTGTTT 2661
DB 18 CCTCTCCCATCTGTTT 1

RESULT 2949
US-10-310-914A-1278669/c
; Sequence 1278669, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1278669
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1278669

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2255 TGTCTCACACCTGTGCTC 2272
DB 18 TGGCTCACACCTGTGATC 1

RESULT 2950
US-10-310-914A-127998
; Sequence 127998, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 127998
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-127998

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 655 AGCAGCGCGCGCGCGG 672
DB 1 AGCCGGGCGCGCGCGG 18

RESULT 2951
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; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1310938
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1310938

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 651 CGGCAGCAGCGCGCGCGG 668
Db 18 CGGCAGCAGCGCGCGCGG 1

RESULT 2962
US-10-310-914A-1310939/c
; Sequence 1310939, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1310939
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1310939

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 651 CGGCAGCAGCGCGCGCGG 668
Db 18 CGGCAGCAGCGCGCGCGG 1

RESULT 2963
US-10-310-914A-1310940/c
; Sequence 1310940, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1310940
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1310940
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```
US-10-310-914A-1310940

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 651 CGGCAGCAGCGCGCGCGG 668
Db 18 CGGCAGCAGCGCGCGCGG 1

RESULT 2964
US-10-310-914A-1310941/c
; Sequence 1310941, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1310941
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1310941

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 651 CGGCAGCAGCGCGCGCGG 668
Db 18 CGGCAGCAGCGCGCGCGG 1

RESULT 2965
US-10-310-914A-1319538
; Sequence 1319538, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1319538
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1319538

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 55.6%; Pred. No. 1.6e+03;
Matches 10; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

Qy 413 TGTGTGTCCTCTCTCTACC 430
Db 1 UGAGUGUCUCCUGCCUGCC 18

RESULT 2966
US-10-310-914A-1320959/c
; Sequence 1320959, Application US/10310914A
; Publication No. US20060003322A1
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```
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1320959
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1320959

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2255 TGTCTCACACCTGTGTCTC 2272
    || ||||| ||||| ||
Db 18 TGGCTCACACCTGTGTCTC 1

RESULT 2967
US-10-310-914A-1321853/c
; Sequence 1321853, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1321853
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1321853

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2255 TGTCTCACACCTGTGTCTC 2272
    || ||||| ||||| ||
Db 18 TGGCTCACACCTGTGTCTC 1

RESULT 2968
US-10-310-914A-1322759/c
; Sequence 1322759, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1322759
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1322759
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Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2739 CTGCCCCCTCCAGCTGGGT 2756
    ||||| ||||| ||
Db 18 CGGCCCCCTCCAGCTGAGT 1

RESULT 2969
US-10-310-914A-132278/c
; Sequence 132278, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 132278
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-132278

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1432 GGTTCCTCGCGTGTGTG 1449
    ||||| ||||| |||||
Db 18 GGTTCCTCGCGTGTGTG 1

RESULT 2970
US-10-310-914A-1323724/c
; Sequence 1323724, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1323724
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1323724

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
    ||||| ||||| |||||
Db 18 CGGCAGCAGCGCGCGCGG 1

RESULT 2971
US-10-310-914A-1324511/c
; Sequence 1324511, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
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; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1324511
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1324511

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 904 GGGGTGGCGCAGGCC 921
Db 18 GGGGTGGAGCTGGGCC 1

RESULT 2972
US-10-310-914A-1334566
; Sequence 1334566, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1334566
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1334566

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 1.6e+03;
Matches 15; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 664 GCGCGCGGGGTGTGAG 681
Db 1 GCGUGCGGGGCGUGGAG 18

RESULT 2973
US-10-310-914A-1343684/c
; Sequence 1343684, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1343684
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1343684
```

```
Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCG 668
Db 18 CGCGCGCGCGCGCGCGG 1

RESULT 2974
US-10-310-914A-134698/c
; Sequence 134698, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 134698
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-134698

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCG 668
Db 18 CGCGCGCGCGCGCGCGG 1

RESULT 2975
US-10-310-914A-1347546/c
; Sequence 1347546, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1347546
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1347546

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 210 GGGTGGGTGGGGGGGAG 227
Db 18 GGGTGGGTGGGGGGGTG 1

RESULT 2976
US-10-310-914A-1347547/c
; Sequence 1347547, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
```

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; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1347547
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1347547

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 210 GGGTGGGGTGGGGGGGAG 227
Db 18 GGGTGGGGTGGGGGGTG 1

RESULT 2977
US-10-310-914A-135240/c
; Sequence 135240, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 135240
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-135240

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGGTGGGGGGGA 226
Db 18 GGGGTGGGGAGGGGGGA 1

RESULT 2978
US-10-310-914A-1357465/c
; Sequence 1357465, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1357465
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1357465

Query Match          0.5%; Score 14.8; DB 1; Length 18;
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Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 280 CTCCTCCACACCTCCTC 297
Db 18 CTCCTCCACACCGGCTC 1

RESULT 2979
US-10-310-914A-1358098
; Sequence 1358098, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1358098
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1358098

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 77.8%; Pred. No. 1.6e+03;
Matches 14; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 207 GGGGGGTGGGTGGGGGG 224
Db 1 GGGGGGGGGGAGGGGAG 18

RESULT 2980
US-10-310-914A-1360269/c
; Sequence 1360269, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1360269
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1360269

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 288 CCACCTCCTCCTCCTTCT 305
Db 18 CTACCTGCTCCTCCTTCT 1

RESULT 2981
US-10-310-914A-1363644/c
; Sequence 1363644, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
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; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1363644
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1363644

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2255 TGCTCACACCTGTGTC 2272
      |||||
DB 18 TGCTCACACCTGAATC 1

RESULT 2982
US-10-310-914A-1376183
; Sequence 1376183, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1376183
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1376183

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 1.6e+03;
Matches 15; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 210 GGGTGGGTGGGGGGGAG 227
      |||||
DB 1 GGGUGGGGCGUGGGGGAG 18

RESULT 2983
US-10-310-914A-1386494/c
; Sequence 1386494, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1386494
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1386494

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
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```
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 645 CAGCAGCGGCAGCAGCGG 662
      |||||
DB 18 CAGCAGCGGCAGCAGCGAG 1

RESULT 2984
US-10-310-914A-139796/c
; Sequence 139796, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 139796
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-139796

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
      |||||
DB 18 CGGCAGCGCGCGCGCGG 1

RESULT 2985
US-10-310-914A-139797/c
; Sequence 139797, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 139797
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-139797

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
      |||||
DB 18 CGGCAGCGCGCGCGCGG 1

RESULT 2986
US-10-310-914A-144277
; Sequence 144277, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
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; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 144277
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-144277
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```
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 61.1%; Pred. No. 1.6e+03;
Matches 11; Conservative 5; Mismatches 2; Indels 0; Gaps 0;
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```
QY 299 TCCTTCCTCGTCTCTCTCCC 316
      :||: |||: |||: |||: |||
Db 1 UCCUCCCGGUCUCCUCC 18
```

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RESULT 2987
US-10-310-914A-146281
; Sequence 146281, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 146281
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-146281
```

```
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 72.2%; Pred. No. 1.6e+03;
Matches 13; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
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```
QY 272 GCCTCTCTCTCTCTCCACC 289
      |||: |||: |||: |||
Db 1 GCCUCCUCCUCCGCCUCC 18
```

```
RESULT 2988
US-10-310-914A-149492
; Sequence 149492, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 149492
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-149492
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```
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 77.8%; Pred. No. 1.6e+03;
Matches 14; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 213 TCGGGTGGGGGGGAGGCA 230
      :||: |||: |||: |||: |||
Db 1 UGGAGTGGGGGAGGAGCA 18
```

```
RESULT 2989
US-10-310-914A-150894/C
; Sequence 150894, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 150894
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-150894
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```
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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```
QY 268 TCCTGCTCTCTCTCTCTC 285
      |||: |||: |||: |||: |||
Db 18 TCCTTCTCTCTCTCTCTC 1
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RESULT 2990
US-10-310-914A-152523/C
; Sequence 152523, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 152523
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-152523
```

```
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

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QY 2556 ATCTATATTCATACATAC 2573
      |||: |||: |||: |||: |||
Db 18 ATATATATACATACATAC 1
```

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RESULT 2991
US-10-310-914A-154806
; Sequence 154806, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 154806
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-154806
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```
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 77.8%; Pred. No. 1.6e+03;
Matches 14; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
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; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 154806  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-154806

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 77.8%; Pred. No. 1.6e+03;  
Matches 14; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 662 GCGGCGGCGGCGCTGTG 679  
|||||  
Db 1 GCGGCGGCGGCGGUCUG 18

## RESULT 2992

US-10-310-914A-156538/c  
; Sequence 156538, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 156538  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-156538

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGGCGG 668  
|||||  
Db 18 CGGCGCGCGCGGCGG 1

## RESULT 2993

US-10-310-914A-157257/c  
; Sequence 157257, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 157257  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-157257

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 113 CTGGTCTTCACCTCTCTGC 130  
|||||  
Db 18 CTGGTCTTCCAACCTCTCTGC 1

## RESULT 2994

US-10-310-914A-158917/c  
; Sequence 158917, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 158917  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-158917

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2255 TGTCTCACACCTGTGCTC 2272  
|||||  
Db 18 TGGCTCACACCTGTGATC 1

## RESULT 2995

US-10-310-914A-163368/c  
; Sequence 163368, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 163368  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-163368

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGGCGG 668  
|||||  
Db 18 CGGCGCGCGCGGCGGCGG 1

## RESULT 2996

US-10-310-914A-163369/c  
; Sequence 163369, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 163369  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-163369

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGCGCAGCGCGCGCGG 668  
Db 18 CGCGCGCGCGCGCGG 1

## RESULT 2997

US-10-310-914A-167357  
; Sequence 167357, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Shiler, Kvuzat  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 167357  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-167357

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 83.3%; Pred. No. 1.6e+03;  
Matches 15; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 659 GCGCGCGCGCGCGGCT 676  
Db 1 GCGCGCAGCGCGGGCU 18

## RESULT 2998

US-10-310-914A-167359  
; Sequence 167359, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Shiler, Kvuzat  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 167359  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-167359

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGGGG 673

Db 1 GCGCGCGCGCGCGGAG 18

## RESULT 2999

US-10-310-914A-167679/c  
; Sequence 167679, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Shiler, Kvuzat  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 167679  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-167679

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGCGCAGCGCGCGGG 668  
Db 18 CGCGCGCGCGCGGGG 1

## RESULT 3000

US-10-310-914A-167680/c  
; Sequence 167680, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Shiler, Kvuzat  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 167680  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-167680

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGCGCAGCGCGCGGG 668  
Db 18 CGCGCGCGCGCGGGG 1

## RESULT 3001

US-10-310-914A-167681/c  
; Sequence 167681, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Shiler, Kvuzat  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A



; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 167681  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-167681

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668  
||||| ||||| ||||| ||||| |||||  
DB 18 CGCGCGCGCGCGCGCGG 1

RESULT 3002  
US-10-310-914A-167682/c  
; Sequence 167682, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 167682  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-167682

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668  
||||| ||||| ||||| ||||| |||||  
DB 18 CGCGCGCGCGCGCGCGG 1

RESULT 3003  
US-10-310-914A-167683/c  
; Sequence 167683, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 167683  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-167683

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668  
||||| ||||| ||||| ||||| |||||

Db 18 CGCGCGCGCGCGCGCGG 1

RESULT 3004  
US-10-310-914A-167684/c  
; Sequence 167684, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 167684  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-167684

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668  
||||| ||||| ||||| ||||| |||||  
DB 18 CGCGCGCGCGCGCGCGG 1

RESULT 3005  
US-10-310-914A-167685/c  
; Sequence 167685, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 167685  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-167685

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668  
||||| ||||| ||||| ||||| |||||  
DB 18 CGCGCGCGCGCGCGCGG 1

RESULT 3006  
US-10-310-914A-167686/c  
; Sequence 167686, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 167686  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-167686

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCGCGCGCGG 668  
Db 18 CGCGCGCGCGCGCGCGG 1

## RESULT 3007

US-10-310-914A-167687/c  
; Sequence 167687, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 167687  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-167687

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCGCGCGCGCGG 668  
Db 18 CGCGCGCGCGCGCGCGG 1

## RESULT 3008

US-10-310-914A-167851  
; Sequence 167851, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 167851  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-167851

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 658 AGCGCGCGCGCGCGGCGC 675  
Db 1 AGCGCGCGCGCGCGCGGCGC 18

## RESULT 3009

US-10-310-914A-169349/c  
; Sequence 169349, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 169349  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-169349

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCGCGCGCGCGG 668  
Db 18 CGCGCGCGCGCGCGCGG 1

## RESULT 3010

US-10-310-914A-173922/c  
; Sequence 173922, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 173922  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-173922

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCGCGCGCGCGG 668  
Db 18 CGCGCGCGCGCGCGCGG 1

## RESULT 3011

US-10-310-914A-177542/c  
; Sequence 177542, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 177542  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-177542

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCGCGCGCGCGG 668  
Db 18 CGGCAGCGCTGCGCGCG 1

## RESULT 3012

US-10-310-914A-182757/c  
; Sequence 182757, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 182757  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-182757

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCGCGCGCGCGG 668  
Db 18 CGGCAGCGCTGCGCGCG 1

## RESULT 3013

US-10-310-914A-184497  
; Sequence 184497, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 184497  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-184497

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGCGG 673  
Db 1 CGGCAGCGCTGCGCGCG 18

## RESULT 3014

US-10-310-914A-189740/c  
; Sequence 189740, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 189740  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-189740

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCGCGCGCGCGG 668  
Db 18 CGGCAGCGCTGCGCGCG 1

## RESULT 3015

US-10-310-914A-189741/c  
; Sequence 189741, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 189741  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-189741

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCGCGCGCGCGG 668  
Db 18 CGGCAGCGCTGCGCGCG 1

## RESULT 3016

US-10-310-914A-189742/c  
; Sequence 189742, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 189742  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-189742

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGGCGG 668  
||||| ||||| ||||| |||||  
Db 18 CGGCGGCGGCGGCGGCGG 1

## RESULT 3017

US-10-310-914A-189743/c  
; Sequence 189743, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 189743  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-189743

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGGCGGCGG 668  
||||| ||||| ||||| |||||  
Db 18 CGGCGGCGGCGGCGGCGG 1

## RESULT 3018

US-10-310-914A-189744/c  
; Sequence 189744, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 189744  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-189744

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGGCGGCGG 668  
||||| ||||| ||||| |||||  
Db 18 CGGCGGCGGCGGCGGCGG 1

## RESULT 3019

US-10-310-914A-191449/c  
; Sequence 191449, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 191449  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-191449

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 225 GAGGCAGGGCGGCGAGGCCA 242  
||||| ||||| ||||| |||||  
Db 18 GAGGCAGGGCGGCGAGGCCA 1

## RESULT 3020

US-10-310-914A-191450/c  
; Sequence 191450, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 191450  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-191450

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 225 GAGGCAGGGCGGCGAGGCCA 242  
||||| ||||| ||||| |||||  
Db 18 GAGGCAGGGCGGCGAGGCCA 1

## RESULT 3021

US-10-310-914A-192718/c  
; Sequence 192718, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 192718

; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-192718

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGGCGG 668  
|||||  
Db 18 CGGCGGCGGCGGCGG 1

## RESULT 3022

US-10-310-914A-195850/c  
; Sequence 195850, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 195850  
; LENGTH: 18

; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-195850

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 660 CGGCGGCGGCGGCGGCTG 677  
|||||  
Db 18 CGGCGGCGGCGGCGGCGG 1

## RESULT 3023

US-10-310-914A-197890/c  
; Sequence 197890, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 197890  
; LENGTH: 18

; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-197890

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGCGGGA 226  
|||||  
Db 18 GGGGTGGGTGGGCGGAGAA 1

## RESULT 3024

US-10-310-914A-203130/c  
; Sequence 203130, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 203130  
; LENGTH: 18

; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-203130

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 207 GGGGCGGTGGGTGGGGGG 224  
|||||  
Db 18 GGGGTGGGTGGGTGGGGGG 1

## RESULT 3025

US-10-310-914A-211253/c  
; Sequence 211253, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 211253  
; LENGTH: 18

; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-211253

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 210 GGGTGGGTGGGGGGGAG 227  
|||||  
Db 18 GGGTGGGTGGGGGGAGTG 1

## RESULT 3026

US-10-310-914A-214524/c  
; Sequence 214524, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 214524  
; LENGTH: 18

```
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-214524

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 639 TGCAGGCGAGCGGCGAG 656
      ||||| ||||| |||||
Db 18 TGCAGGCGAGCGGCGGTG 1

RESULT 3027
US-10-310-914A-214540/c
; Sequence 214540, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 214540
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-214540

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGGCGCGCGGGG 673
      ||||| ||||| |||||
Db 18 GCAGCGGCGCGCGGG 1

RESULT 3028
US-10-310-914A-215662
; Sequence 215662, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 215662
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-215662

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 61.1%; Pred. No. 1.6e+03;
Matches 11; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 264 CACCTCGCTCCTCTCT 281
      | |||: ||: ||: ||: ||:
Db 1 CCCUCCUCCUCCUCCU 18

RESULT 3029
US-10-310-914A-215846/c
; Sequence 215846, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 215846
; LENGTH: 18
; TYPE: RNA
US-10-310-914A-215846

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGGCG 670
      ||||| ||||| |||||
Db 18 GCAGCAGCGCGCGGCG 1

RESULT 3030
US-10-310-914A-217000
; Sequence 217000, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 217000
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-217000

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 55.6%; Pred. No. 1.6e+03;
Matches 10; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 288 CCACCTCTCTCTCTCT 305
      ||| :||: ||: ||: ||:
Db 1 CCAGGUCCUCCUCCUCCU 18

RESULT 3031
US-10-310-914A-221968
; Sequence 221968, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 221968
; LENGTH: 18
; TYPE: RNA
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; ORGANISM: Human
US-10-310-914A-221968

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 1.6e+03;
Matches 15; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 208 GGGGGTGGGGTGGGGGGG 225
      |||||:|||||:|||||
Db 1 GGGGGUGGGGGGGGAGGG 18

RESULT 3032
US-10-310-914A-221976
; Sequence 221976, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 221976
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-221976

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 1.6e+03;
Matches 15; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGGTGGGGG 223
      |||||:|||||:|||||
Db 1 GUGGGGGGGGGGGGGGGG 18

RESULT 3033
US-10-310-914A-221989/c
; Sequence 221989, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 221989
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-221989

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 251 AAGGGCGCGCCACCGCT 268
      |||||:|||||:|||||
Db 18 AGGGGGCGCGCCACCGCT 1

RESULT 3034
US-10-310-914A-223072/c
; Sequence 223072, Application US/10310914A
```

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; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 223072
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-223072

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2255 TGTCTCACACCTGTGCTC 2272
      |||||:|||||:|||||
Db 18 TGGCTCACACCTGTGATC 1

RESULT 3035
US-10-310-914A-227992
; Sequence 227992, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 227992
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-227992

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 66.7%; Pred. No. 1.6e+03;
Matches 12; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 283 CTCCACCACCTCTCTCTC 300
      |||||:|||||:|||||
Db 1 CUCCACCUCCUGCUCUC 18

RESULT 3036
US-10-310-914A-228742/c
; Sequence 228742, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 228742
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
```

US-10-310-914A-228742

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 902 GCGGGGTGGCGGAGGCG 919  
||||| ||||| ||||| ||||| |||||  
Db 18 GCGGGTGGCGGGGCG 1

RESULT 3037

US-10-310-914A-236308/c  
; Sequence 236308, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 236308

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-236308

Query Match

Best Local Similarity 88.9%; Score 14.8; DB 1; Length 18;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCGCGGCGGCGG 668  
||||| ||||| ||||| ||||| |||||  
Db 18 CGCGCGGCGGCGGCGG 1

RESULT 3038

US-10-310-914A-238185/c  
; Sequence 238185, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 238185

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-238185

Query Match

Best Local Similarity 88.9%; Score 14.8; DB 1; Length 18;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGCGGCGGCGGCGG 673  
||||| ||||| ||||| ||||| |||||  
Db 18 GCGCGGCGGCGGCGGCGG 1

RESULT 3039

US-10-310-914A-245275/c  
; Sequence 245275, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 245275

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-245275

Query Match

Best Local Similarity 88.9%; Score 14.8; DB 1; Length 18;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCGCGGCGGCGG 668  
||||| ||||| ||||| ||||| |||||  
Db 18 CGCGCGGCGGCGGCGG 1

RESULT 3040

US-10-310-914A-246617/c  
; Sequence 246617, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 246617

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-246617

Query Match

Best Local Similarity 88.9%; Score 14.8; DB 1; Length 18;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 208 GGGGTGGGTGGGCGGCGG 225  
||||| ||||| ||||| ||||| |||||  
Db 18 GGGTTGGGTGGGCGCGG 1

RESULT 3041

US-10-310-914A-247682  
; Sequence 247682, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 247682

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-247682



```
Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 657 CAGCGCGCGCGCGCGGGG 674
DB 1 CAGCGCGCGCGCGGAGGG 18
|||||
|

RESULT 3042
US-10-310-914A-248141/c
; Sequence 248141, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 248141
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-248141

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 657 CAGCGCGCGCGCGCGGGG 674
DB 18 CAGCGCGCGCGGCTCGGG 1
|||||
|

RESULT 3043
US-10-310-914A-255931/c
; Sequence 255931, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 255931
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-255931

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
DB 18 CGGCAGCGCGCGCGCGG 1
|||||
|

RESULT 3044
US-10-310-914A-255932/c
; Sequence 255932, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
```

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; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 255932
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-255932

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
DB 18 CGGCAGCGCGCGCGCGG 1
|||||
|

RESULT 3045
US-10-310-914A-257835/c
; Sequence 257835, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 257835
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-257835

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
DB 18 CGGCAGCGCGCGCGCGG 1
|||||
|

RESULT 3046
US-10-310-914A-257836/c
; Sequence 257836, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 257836
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-257836
```

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGGCGG 668  
||| || |||||  
Db 18 CGGCGCGCGCGGCGGCGG 1

## RESULT 3047

US-10-310-914A-257953/c  
; Sequence 257953, Application US/10310914A  
; Publication No. US20060003322A1

## GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 257953  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-257953

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 654 CAGCAGCGCGCGGCGG 671  
||| |||||  
Db 18 CAGGGCGCGCGGCGGCGG 1

## RESULT 3048

US-10-310-914A-258762  
; Sequence 258762, Application US/10310914A  
; Publication No. US20060003322A1

## GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 258762  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-258762

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 66.7%; Pred. No. 1.6e+03;  
Matches 12; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 20 TGGGTTGGGGGGCGGT 37  
:||||:|||||  
Db 1 UGGGGUUGUGGGGAGU 18

## RESULT 3049

US-10-310-914A-260262/c  
; Sequence 260262, Application US/10310914A  
; Publication No. US20060003322A1

## GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 260262  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-260262

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 232 GGGCAGAGCCACTCTGCA 249  
|||||||  
Db 18 GGGCAGAGCCACTGGGCA 1

## RESULT 3050

US-10-310-914A-260749/c  
; Sequence 260749, Application US/10310914A  
; Publication No. US20060003322A1

## GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 260749  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-260749

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 210 GGGTGGGTGGGGGGGAG 227  
|||||||  
Db 18 GGGTGGGTGGGGGTGGG 1

## RESULT 3051

US-10-310-914A-275924/c  
; Sequence 275924, Application US/10310914A  
; Publication No. US20060003322A1

## GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 275924  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-275924

Query Match 0.5%; Score 14.8; DB 1; Length 18;

```
Best Local Similarity 88.9%; Pred. No. 1.6e+03; Mismatches 2; Indels 0; Gaps 0;
Matches 16; Conservative 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
    ||||| ||||| |||||
Db 18 CGGCGCGCGCGCGCGCGG 1

RESULT 3052
US-10-310-914A-275925/c
; Sequence 275925, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 275925
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-275925

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
    ||||| ||||| |||||
Db 18 CGGCGCGCGCGCGCGCGG 1

RESULT 3053
US-10-310-914A-276545/c
; Sequence 276545, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 276545
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-276545

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGAGGGA 226
    ||||| ||||| |||||
Db 18 GGGGTGGGTGGGAGGGA 1

RESULT 3054
US-10-310-914A-279742
; Sequence 279742, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 279742
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-279742

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2555 TATCTATTTTCATACATA 2572
    :||: :| :|: |||||
Db 1 UAAUACAUCAUCAUA 18

RESULT 3055
US-10-310-914A-280844/c
; Sequence 280844, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 280844
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-280844

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
    ||||| ||||| |||||
Db 18 CGGCGCGCGCGCGCGCGG 1

RESULT 3056
US-10-310-914A-280845/c
; Sequence 280845, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 280845
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-280845

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
```



```
QY 306 CCTCTCTCTCCCTCCCTCCC 323
Db 18 CCTCCCTCTCCCTCCCTCCC 1

RESULT 3062
US-10-310-914A-290137/c
; Sequence 290137, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 290137
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-290137

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 266 CCTCTCGCTCTCTCTCC 283
Db 18 CCTCTCGCTCTCTCTCTCC 1

RESULT 3063
US-10-310-914A-298166
; Sequence 298166, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 298166
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-298166

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 654 CAGCAGCGCGCGCGCGG 671
Db 1 CAGCAGCGGUGGCGGCAG 18

RESULT 3064
US-10-310-914A-305901/c
; Sequence 305901, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
```

```
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 305901
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-305901

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
Db 18 CGGTGGCAGCGCGCGCGG 1

RESULT 3065
US-10-310-914A-313459/c
; Sequence 313459, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 313459
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-313459

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2362 GAAAGACAGACAGACAGAGA 2379
Db 18 GAAAGACAGACAGACAGAGA 1

RESULT 3066
US-10-310-914A-317194/c
; Sequence 317194, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 317194
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-317194

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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QY 651 CGGCAGCAGCGCGCGG 668  
Db 18 CGGCGCGCGCGCGCGG 1

## RESULT 3067

US-10-310-914A-317195/c  
; Sequence 317195, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 317195  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-317195

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGG 668  
Db 18 CGGCGCGCGCGCGCGG 1

## RESULT 3068

US-10-310-914A-317196/c  
; Sequence 317196, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 317196  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-317196

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGG 668  
Db 18 CGGCGCGCGCGCGCGG 1

## RESULT 3069

US-10-310-914A-317197/c  
; Sequence 317197, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 317197  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-317197

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGG 668  
Db 18 CGGCGCGCGCGCGCGG 1

## RESULT 3070

US-10-310-914A-317198/c  
; Sequence 317198, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 317198  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-317198

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGG 668  
Db 18 CGGCGCGCGCGCGCGG 1

## RESULT 3071

US-10-310-914A-320871/c  
; Sequence 320871, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 320871  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-320871

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGG 223

```
Db      18 GGGGGGGGGGGGGGGGGG 1
|||||
Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

RESULT 3072
US-10-310-914A-321254/c
; Sequence 321254, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 321254
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-321254

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      2068 GCTGGCCTCACCAGCC 2085
|||||
Db      18 GCTGGCCTCTCCCTGCC 1
|||||

RESULT 3073
US-10-310-914A-321831
; Sequence 321831, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 321831
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-321831

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 72.2%; Pred. No. 1.6e+03;
Matches 13; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY      579 CGGCCTTGCTGGCTGGC 596
|||||
Db      1 CGGCCUCCGCCGCUUGC 18
|||||

RESULT 3074
US-10-310-914A-324371/c
; Sequence 324371, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
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; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 324371
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-324371

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      651 CGGCAGCAGCGCGCGCG 668
|||||
Db      18 CGCGCGCGCGCGCGCGG 1
|||||

RESULT 3075
US-10-310-914A-324372/c
; Sequence 324372, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 324372
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-324372

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      651 CGGCAGCAGCGCGCGCG 668
|||||
Db      18 CGCGCGCGCGCGCGCGG 1
|||||

RESULT 3076
US-10-310-914A-324382/c
; Sequence 324382, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 324382
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-324382

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      648 CAGCGGCAGCAGCGCGCG 665
|||||
```

```
Db      18 CGGCGGCGGCGGCGG 1

RESULT 3077
US-10-310-914A-324663
; Sequence 324663, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 324663
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-324663

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      643 GGCAGCAGCGGCGGCGG 660
      |||||
Db      1 GGCAGCAGCGGCGGCGG 18

RESULT 3078
US-10-310-914A-326522
; Sequence 326522, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 326522
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-326522

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      651 CGGCGGCGGCGGCGG 668
      |||||
Db      1 CGGCGGCGGCGGCGG 18

RESULT 3079
US-10-310-914A-329168/c
; Sequence 329168, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 329168
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-329168

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      205 CGGCGGCGGCGGCGG 222
      |||||
Db      18 CTGTGGGTGGGTGGG 1

RESULT 3080
US-10-310-914A-329395/c
; Sequence 329395, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 329395
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-329395

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      205 CGGCGGCGGCGGCGG 222
      |||||
Db      18 CTGTGGGTGGGTGGG 1

RESULT 3081
US-10-310-914A-329396/c
; Sequence 329396, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 329396
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-329396

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      205 CGGCGGCGGCGGCGG 222
      |||||
Db      18 CTGTGGGTGGGTGGG 1
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; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 338955
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-338955

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1681 TTCTGGTGGGCTGTGTC 1698
Db 18 TTCTGGTGGGCTGTGTC 1

RESULT 3085
US-10-310-914A-338998/c
; Sequence 338998, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 338998
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-338998

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2679 TCATGGATTGTTCTTCT 2696
Db 18 TCGTGGATTGTTTCTTCT 1

RESULT 3086
US-10-310-914A-339015/c
; Sequence 339015, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 339015
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-339015

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCG 668
Db 18 CGGCAGCAGCGCGCGCG 1

; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 338955
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-338955

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 207 GGGGGGGTGGGGGGGG 224
Db 1 GGGGGGGTGGGGGGGG 18

RESULT 3084
US-10-310-914A-338955/c
; Sequence 338955, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
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RESULT 3087
US-10-310-914A-339016/c
; Sequence 339016, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 339016
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-339016
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
Db 18 CGCGCGCGCGCGCGCGG 1

RESULT 3088
US-10-310-914A-339017/c
; Sequence 339017, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 339017
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-339017
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
Db 18 CGCGCGCGCGCGCGCGG 1

RESULT 3089
US-10-310-914A-339141/c
; Sequence 339141, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 339141
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-339141
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
Db 18 CGCGCGCGCGCGCGCGG 1

RESULT 3090
US-10-310-914A-339241/c
; Sequence 339241, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 339241
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-339241
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
Db 18 CGCGCGCGCGCGCGCGG 1

RESULT 3091
US-10-310-914A-339247/c
; Sequence 339247, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 339247
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-339247
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 645 CAGCAGCGCGCAGCAGCGG 662
Db 18 CGGCAGCGCGCAGCAGCGG 1
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RESULT 3092
US-10-310-914A-339250/c
; Sequence 339250, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 339250
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-339250

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
DB 18 CGGCGCGCGCGCGCGCGG 1

RESULT 3093
US-10-310-914A-341334/c
; Sequence 341334, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 341334
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-341334

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
DB 18 CGGCGCGCGCGCGCGCGG 1

RESULT 3094
US-10-310-914A-341335/c
; Sequence 341335, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 341335
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; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-341335

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
DB 18 CGGCGCGCGCGCGCGCGG 1

RESULT 3095
US-10-310-914A-341336/c
; Sequence 341336, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 341336
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-341336

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
DB 18 CGGCGCGCGCGCGCGCGG 1

RESULT 3096
US-10-310-914A-341337/c
; Sequence 341337, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 341337
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-341337

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
DB 18 CGGCGCGCGCGCGCGCGG 1

RESULT 3097
US-10-310-914A-341338/c
; Sequence 341338, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 341338
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US-10-310-914A-341347/c
; Sequence 341347, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 341347
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-341347

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
   ||| ||||| ||||| |||||
Db 18 CGGAGGCGCGCGCGCGG 1

RESULT 3098
US-10-310-914A-355447/c
; Sequence 355447, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 355447
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-355447

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
   ||| ||||| ||||| |||||
Db 18 CGGAGGCGCGCGCGCGG 1

RESULT 3099
US-10-310-914A-361457/c
; Sequence 361457, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 361457
; LENGTH: 18
```

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; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-361457

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1745 CAGGAATGCTGGTGGGTG 1762
   ||| ||||| ||||| |||||
Db 18 CAGGCATGGTGGTGGGTG 1

RESULT 3100
US-10-310-914A-364975/c
; Sequence 364975, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 364975
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-364975

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2210 GTGTCGAGGAAGAGGCA 2227
   ||||| ||||| ||||| ||
Db 18 GTGTCGGAAGAAGAGTCA 1

RESULT 3101
US-10-310-914A-368124
; Sequence 368124, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 368124
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-368124

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 899 GGGCGCGGGGTGGCGCAG 916
   ||||| ||||| ||||| ||
Db 1 GGGCGCGGGGTGGCGCAG 18

RESULT 3102
US-10-310-914A-374239
```

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; Sequence 374239, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 374239
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-374239

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      646 AGCAGCGGCGGCGGCGG 663
Db      1 AGCAGCGGCGGCGGCGG 18

RESULT 3103
US-10-310-914A-376263
; Sequence 376263, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 376263
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-376263

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 1.6e+03;
Matches 15; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      214 GGGGTGGGGGCGGCGG 231
Db      1 GGGGUGGGGCGGCGGCGG 18

RESULT 3104
US-10-310-914A-377946
; Sequence 377946, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 377946
; LENGTH: 18
; TYPE: RNA
```

```
; ORGANISM: Human
US-10-310-914A-377946

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 1.6e+03;
Matches 15; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      208 GGGGTGGGGTGGGGGGG 225
Db      1 GGGGUGGGGCGGAGGG 18

RESULT 3105
US-10-310-914A-383716
; Sequence 383716, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 383716
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-383716

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 61.1%; Pred. No. 1.6e+03;
Matches 11; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY      269 CCGCTCTCTCTCTCTCC 286
Db      1 CCUUCUCCUCCUCCUCC 18

RESULT 3106
US-10-310-914A-384356/c
; Sequence 384356, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 384356
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-384356

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      2255 TGTCTCACACCTGTGCTC 2272
Db      18 TGGCTCACACCTGTGATC 1

RESULT 3107
US-10-310-914A-385460/c
; Sequence 385460, Application US/10310914A
```



```
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 406790
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-406790

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2080 CAGCCCTGGCTCGGCC 2097
Db 18 CAGCCCTGGCTTGCCC 1

RESULT 3113
US-10-310-914A-407681
; Sequence 407681, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 407681
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-407681

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 657 CAGCGCGCGCGCGGGG 674
Db 1 CAGCGCGCGCGCGUGG 18

RESULT 3114
US-10-310-914A-412083/c
; Sequence 412083, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 412083
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-412083
```

```
Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 651 CGGCAGCAGCGCGCGGG 668
Db 18 CGCGCGCGCGCGCGGG 1
```

```
RESULT 3115
US-10-310-914A-412084/c
; Sequence 412084, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 412084
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-412084
```

```
Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 651 CGGCAGCAGCGCGCGGG 668
Db 18 CGCGCGCGCGCGCGGG 1
```

```
RESULT 3116
US-10-310-914A-412085/c
; Sequence 412085, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 412085
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-412085
```

```
Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 651 CGGCAGCAGCGCGCGGG 668
Db 18 CGCGCGCGCGCGCGGG 1
```

```
RESULT 3117
US-10-310-914A-412086/c
; Sequence 412086, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
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; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 412086
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-412086

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGG 668
Db 18 CGCGCGCGCGCGCGCG 1

RESULT 3118
US-10-310-914A-414036/c
; Sequence 414036, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 414036
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-414036

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGG 668
Db 18 CGCGCGCGCGCGCGCG 1

RESULT 3119
US-10-310-914A-414502
; Sequence 414502, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 414502
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-414502
```

```
Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 1.6e+03;
Matches 15; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 918 GCCCGCGCAGCAGGCTGG 935
Db 1 GCCCGGUGACGGGGCUGG 18

RESULT 3120
US-10-310-914A-41983
; Sequence 41983, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 41983
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-41983

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 1.6e+03;
Matches 15; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1966 GACACCAGCCCCCTGCC 1983
Db 1 GGCACCAGCCCCCUGGCC 18

RESULT 3121
US-10-310-914A-426626
; Sequence 426626, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 426626
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-426626

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 660 CGCGCGCGCGCGGCGTG 677
Db 1 CGCGCGCGCGCGGUGCGG 18

RESULT 3122
US-10-310-914A-426627
; Sequence 426627, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
```



```
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 426627
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-426627

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 660 CGCGCGCGCGCGGCTG 677
    |||||
Db 1 CGCGCGCGCGGUGCGG 18

RESULT 3123
US-10-310-914A-427455
; Sequence 427455, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 427455
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-427455

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 1.6e+03;
Matches 15; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 207 GCGGGTGGTGGGGG 224
    |||||
Db 1 GCGGGGGGGGGGGG 18

RESULT 3124
US-10-310-914A-427843/c
; Sequence 427843, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 427843
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-427843

Query Match          0.5%; Score 14.8; DB 1; Length 18;
```

```
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 TCCTGCTCTCTCTCTC 285
    |||||
Db 18 TCCTGCTCTCTCTCTCCC 1

RESULT 3125
US-10-310-914A-432640/c
; Sequence 432640, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 432640
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-432640

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 648 CAGCGCGCAGCAGCGCGG 665
    |||||
Db 18 CGCGCGCGCGCAGCGCGG 1

RESULT 3126
US-10-310-914A-437134/c
; Sequence 437134, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 437134
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-437134

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGGG 673
    |||||
Db 18 GCACCGCGCGCGCGAGGG 1

RESULT 3127
US-10-310-914A-438688/c
; Sequence 438688, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
```

```
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 438688
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-438688

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2661 TCCCACCCCTTCCT 2678
Db 18 TCCCCAACCCCTTCCT 1

RESULT 3128
US-10-310-914A-448208/c
; Sequence 448208, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 448208
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-448208

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGA 226
Db 18 GGGGTGGGTGGGGTGA 1

RESULT 3129
US-10-310-914A-450670
; Sequence 450670, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 450670
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-450670

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGA 226
Db 18 GGGGTGGGTGGGGTGA 1

RESULT 3130
US-10-310-914A-458134/c
; Sequence 458134, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 458134
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-458134

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 208 GGGGTGGGTGGGGGGG 225
Db 18 GGGGTGGGTGGGGGGG 1

RESULT 3131
US-10-310-914A-458167/c
; Sequence 458167, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 458167
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-458167

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGA 226
Db 18 GGGGTGGGTGGGGGGA 1

RESULT 3132
US-10-310-914A-458841
; Sequence 458841, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
```

```
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 660 CGCGCGCGCGGGGGCTG 677
Db 1 CGCGCGCGCGGGGGCGG 18

RESULT 3130
US-10-310-914A-458134/c
; Sequence 458134, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 458134
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-458134

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 208 GGGGTGGGTGGGGGGG 225
Db 18 GGGGTGGGTGGGGGGG 1

RESULT 3131
US-10-310-914A-458167/c
; Sequence 458167, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 458167
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-458167

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGA 226
Db 18 GGGGTGGGTGGGGGGA 1

RESULT 3132
US-10-310-914A-458841
; Sequence 458841, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
```

Query Match 0.5%; Score 14.8; DB 1;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels  
Length 18;

```

; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof

```

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 46414  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-46414

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGCGCAGCAGCGCGCGG 668  
DB 18 CGCGCGCAGCGCGCGG 1

## RESULT 3138

US-10-310-914A-465057  
; Sequence 465057, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 465057  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-465057

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 44.4%; Pred. No. 1.6e+03;  
Matches 8; Conservative 8; Mismatches 2; Indels 0; Gaps 0;

QY 10 TCTGCTTTCTCGGGGTG 27  
DB 1 UCUGUUUUUCUGGGGUG 18

## RESULT 3139

US-10-310-914A-468427  
; Sequence 468427, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 468427  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-468427

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 61.1%; Pred. No. 1.6e+03;  
Matches 11; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 266 CCTCCTGCTCCTCCTCC 283  
DB 1 CCUCUUGCCUCCUCCUC 18

## RESULT 3140

US-10-310-914A-48245  
; Sequence 48245, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 48245  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-48245

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 66.7%; Pred. No. 1.6e+03;  
Matches 12; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 109 GACCCGTGGTCTTCACCTC 126  
DB 1 GACCCUUGUCUGCACCUC 18

## RESULT 3141

US-10-310-914A-485318/c  
; Sequence 485318, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 485318  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-485318

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGG 670  
DB 18 GCAGAAGCGCGCGCGTG 1

## RESULT 3142

US-10-310-914A-485320/c  
; Sequence 485320, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01

```

; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 485320
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-485320

```

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels

Qy 654 CAGCAGCGCGCGCGCGG 671  
||| ||| ||| ||| ||| ||| ||| |||  
Db 18 CAGAAGCGCGCGCGGTGG 1

RESULT 3143  
US-10-310-914A-48562/c  
; Sequence 48562, Application US/10310914A  
; Publication No. US20060003322A1

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels

QY 651 CGGAGCAGCGCGCGG 668  
Db 18 CGGCGCGCGCGCGG 1

RESULT 3144  
US-10-310-914A-48563/c  
; Sequence 48563, Application US/10310914A  
; Publication No. US20060003322A1

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels

Qy 651 CGGAGCAGCGGCGG 668

[illegible]

```

RESULT 3145
US-10-310-914A-48564/c
; Sequence 48564, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvaat
; TITLE OF INVENTION: Bioinformatically deter
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 48564
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-48564

```

Query Match	0.5%	Score 14.8;	DB 1;	Length 18;
Best Local Similarity	88.9%;	Pred. No. 1.6e+03;		
Matches 16;	Conservative	0;	Mismatches 2;	Indels 0;
				Gaps 0;

Qy 648 CAGCGGCAGCAGCGCGG 665  
Db 18 CGCGCGCGGCAGCGCGG 1

```

RESULT 3146
US-10-310-914A-486134/c
/ Sequence 486134, Application US/10310914A
/ Publication No. US20060003322A1
/ GENERAL INFORMATION:
/ APPLICANT: Bentwich, Isaac
/ APPLICANT: Shiller, Krust
/ TITLE OF INVENTION: Bioinformatically de
/ FILE REFERENCE: 06087.0200.CPU501
/ CURRENT APPLICATION NUMBER: US/10/310,914
/ CURRENT FILING DATE: 2002-12-06
/ NUMBER OF SEQ ID NOS: 1398402
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 486134
/ LENGTH: 18
/ TYPE: RNA
/ ORGANISM: Human
US-10-310-914A-486134

```

Query Match	0.5%	Score 14.8;	DB 1;	Length 18;
Best Local Similarity	88.9%;	Pred. No. 1.6e+03;		
Matches 16;	Conservative	0;	Mismatches 2;	Indels 0;
				Gaps 0;

Qy 208 . GCGGCTGGCGTGGCGGG 225  
|||  
Db 18 GCGGCTGGCGTGGCGAG 1

RESULT 3147:  
US-10-310-914A-488003  
; Sequence 488003, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Benitwich, Isaac  
; APPLICANT: Shiler, Kruzat  
; TITLE OF INVENTION: Bioinformatically de  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CFUS01  
CURRENT APPLICATION NUMBER: US/10/310.914

; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 488003  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-488003

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 83.3%; Pred. No. 1.6e+03;  
Matches 15; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 213 TGGGTGGGGGGGAGGCA 230  
:||||| ||||| ||||| |||||  
DB 1 UGGGGGGGGGGGGGCA 18

RESULT 3148  
US-10-310-914A-490223/c  
; Sequence 490223, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 490223  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-490223

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 654 CAGCAGCGGGCGGGCGG 671  
||| ||||| ||||| |||||  
DB 18 CAGGGCGGGCGGGCGG 1

RESULT 3149  
US-10-310-914A-494453/c  
; Sequence 494453, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 494453  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-494453

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 659 GCGGCGGGCGGGGGCT 676  
||||| ||||| ||||| |||||

DB 18 GCGGCGGGCGGGCGGCT 1

RESULT 3150  
US-10-310-914A-494505/c  
; Sequence 494505, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 494505  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-494505

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGGCGG 668  
||||| ||||| ||||| |||||  
DB 18 CGGCGGCGGGCGGGCGG 1

RESULT 3151  
US-10-310-914A-494506/c  
; Sequence 494506, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 494506  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-494506

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGGGCGGCGG 668  
||||| ||||| ||||| |||||  
DB 18 CGGCGGCGGGCGGGCGG 1

RESULT 3152  
US-10-310-914A-494507/c  
; Sequence 494507, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 494507  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-494507



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; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 496793
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-496793

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 904 GGGGGTGGCGCAGGCGCC 921
      ||||| |||||
Db 18 GGGGGTGGCGCAGGCGCC 1

RESULT 3158
US-10-310-914A-496927/c
; Sequence 496927, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 496927
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-496927

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
      |||| | ||||| |||||
Db 18 CGGCAGCAGCGCGCGCGG 1

RESULT 3159
US-10-310-914A-500078/c
; Sequence 500078, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 500078
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-500078

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 268 TCCTGCTCTCTCTCTCTC 285
      |||| | ||||| |||||
Db 18 TCCTGCTCTCTCTCTCTC 1

RESULT 3160
US-10-310-914A-503746
; Sequence 503746, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 503746
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-503746

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 646 AGCAGCGCGCAGCAGCGGC 663
      ||||| ||||| |||||
Db 1 AGCAGCGCAGCAGCAGCGGC 18

RESULT 3161
US-10-310-914A-506940/c
; Sequence 506940, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 506940
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-506940

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGTGGGGTGGGGG 223
      ||||| ||||| |||||
Db 18 GGGGGGTGGGGTGGGGG 1

RESULT 3162
US-10-310-914A-508505/c
; Sequence 508505, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
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; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-519956

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 1.6e+03;
Matches 15; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 208 GGGGGTGGGTGGGGGGG 225
Db 1 GGGGGGUGGGAGGGGGAG 18

RESULT 3168
US-10-310-914A-547113/c
; Sequence 547113, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 547113
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-547113

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCGGGGGGGG 668
Db 18 CGGCGGGGGGGGGCGG 1

RESULT 3169
US-10-310-914A-548063/c
; Sequence 548063, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 548063
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-548063

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2555 TATCTATATCATACATA 2572
Db 18 TATATATATACATACATA 1

RESULT 3170
US-10-310-914A-548063/c
; Sequence 548063, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 548063
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-548063

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2664 CCTCTGCCCCACCCCTGTTT 2661
Db 18 CCTCTGCCCCAGCCTGTCT 1

RESULT 3171
US-10-310-914A-556426/c
; Sequence 556426, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 556426
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-556426

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 72.2%; Pred. No. 1.6e+03;
Matches 13; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 2664 CCACCCCTCTCTCCTTCA 2681
Db 1 CCACCCCGGCCUCCUUA 18

RESULT 3172
US-10-310-914A-560053
; Sequence 560053, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 560053
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-560053

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2644 CCTCTGCCCCACCCCTGTTT 2661
Db 18 CCTCTGCCCCAGCCTGTCT 1

RESULT 3173
US-10-310-914A-560053
; Sequence 560053, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 560053
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-560053

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2644 CCTCTGCCCCACCCCTGTTT 2661
Db 18 CCTCTGCCCCAGCCTGTCT 1
```

; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-560053

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 72.2%; Pred. No. 1.6e+03;  
Matches 13; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 285 CCACACCTCTCTCTCTCT 302  
|||||:|:|:|:|:|:|:  
Db 1 CCACACCTCTCTCTCTCTCU 18

## RESULT 3173

US-10-310-914A-56290  
; Sequence 56290, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 56290

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-56290

## Query Match

Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 216 GGTGGGGGGGAGGAGGG 233  
|||:|:|:|:|:|:|:  
Db 1 GGAGGGGGGGGAGGAGGG 18

## RESULT 3174

US-10-310-914A-564610  
; Sequence 564610, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 564610

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-564610

## Query Match

Best Local Similarity 61.1%; Pred. No. 1.6e+03;  
Matches 11; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 269 CCTGCTCTCTCTCTCTCT 286  
|:|:|:|:|:|:|:|:|:  
Db 1 CGUGCCUCCUGCCUCCUCC 18

## RESULT 3175

US-10-310-914A-57140/c

; Sequence 57140, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 57140

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-57140

## Query Match

Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCGCAGCG 661  
|||||:|:|:|:|:|:|:  
Db 18 GCAGCAGCGCGCAGCG 1

## RESULT 3176

US-10-310-914A-586502/c  
; Sequence 586502, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 586502

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-586502

## Query Match

Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 208 GGGGTGGGGTGGGGGGG 225  
|||||:|:|:|:|:|:|:  
Db 18 GGGTGGGGGTGGGGGGG 1

## RESULT 3177

US-10-310-914A-587656/c  
; Sequence 587656, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 587656

; LENGTH: 18

; TYPE: RNA

```
; ORGANISM: Human
US-10-310-914A-587656

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGG 668
Db 18 CGGCGCGCGCGCGCGG 1

RESULT 3178
US-10-310-914A-589253/c
; Sequence 589253, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 589253
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-589253

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2747 CCAGCTGGGTGGTCCAG 2764
Db 18 CCAGCTGGGAGGCCCG 1

RESULT 3179
US-10-310-914A-592461
; Sequence 592461, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 592461
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-592461

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 66.7%; Pred. No. 1.6e+03;
Matches 12; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 269 CCGGCTCTCCCTCCCTCC 286
Db 1 CCUGCCUCCUCCAGUCC 18

RESULT 3180
US-10-310-914A-592557/c
; Sequence 592557, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 592557
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-592557

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGG 668
Db 18 CGGCGCGCGCGCGCGG 1

RESULT 3181
US-10-310-914A-605146/c
; Sequence 605146, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 605146
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-605146

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 270 CTGCTCTCTCTCTCTCCA 287
Db 18 CTGCTCTCTCTCTCTCCA 1

RESULT 3182
US-10-310-914A-605490
; Sequence 605490, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 605490
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-605490
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Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      651 CGGCAGCAGCGCGCGCGG 668
Db      18 CGCGCGCGCGCGCGCGG 1

RESULT 3188
US-10-310-914A-632068/c
; Sequence 632068, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 632068
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-632068

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      651 CGGCAGCAGCGCGCGCGG 668
Db      18 CGCGCGCGCGCGCGCGG 1

RESULT 3189
US-10-310-914A-632069/c
; Sequence 632069, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 632069
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-632069

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      651 CGGCAGCAGCGCGCGCGG 668
Db      18 CGCGCGCGCGCGCGCGG 1

RESULT 3190
US-10-310-914A-640424
; Sequence 640424, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
```

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; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 640424
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-640424

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 77.8%; Pred. No. 1.6e+03;
Matches 14; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      19 CTGGGGTTGGGGGGGGCG 36
Db      1 CUGGGGGUGGGGGGGGG 18

RESULT 3191
US-10-310-914A-641628/c
; Sequence 641628, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 641628
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-641628

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      651 CGGCAGCAGCGCGCGCGG 668
Db      18 CGCGCGCGCGCGCGCGG 1

RESULT 3192
US-10-310-914A-651444
; Sequence 651444, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 651444
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-651444
```

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Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 77.8%; Pred. No. 1.6e+03;
Matches 14; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 285 CCACACCTCTCTCTCTCT 302
Db 1 CCACACCTCTCTCTCTCTCT 18

RESULT 3193
US-10-310-914A-651892
; Sequence 651892, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 651892
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-651892

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 77.8%; Pred. No. 1.6e+03;
Matches 14; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2086 CTGGCTCGGCCACCC 2103
Db 1 CUGGCCUCUGCCCCCUCC 18

RESULT 3194
US-10-310-914A-659960
; Sequence 659960, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 659960
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-659960

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 1.6e+03;
Matches 15; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 551 GCAGCACCTCGGCACCC 568
Db 1 GCAGCACCTCGGCACCC 18

RESULT 3195
US-10-310-914A-66179
; Sequence 66179, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
```

```
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 66179
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-66179

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 1.6e+03;
Matches 15; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 663 CGGCGCGCGGCTGTGA 680
Db 1 CGGCGCGCGGCGGUGA 18

RESULT 3196
US-10-310-914A-661998/c
; Sequence 661998, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 661998
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-661998

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2358 GTGAGAAAGACAGACAGA 2375
Db 18 GAGAGAGAGACAGACAGA 1

RESULT 3197
US-10-310-914A-668951/c
; Sequence 668951, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 668951
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-668951

Query Match      0.5%; Score 14.8; DB 1; Length 18;
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; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 671970
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-671970

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGGTGGGGGA 226
Db 18 GGGGTGGGGTGGGGGA 1

RESULT 3201
US-10-310-914A-673265/c
; Sequence 673265, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 673265
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-673265

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 145 TCCTGCCAAATCCCAACC 162
Db 18 TCCAGCCTAATCCCAACC 1

RESULT 3202
US-10-310-914A-675965/c
; Sequence 675965, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 675965
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-675965

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 116 GTCTTCACCTCCCTGCTC 133
Db 1 GUCUUCACCUUCUGUCUC 18

RESULT 3200
US-10-310-914A-671970/c
; Sequence 671970, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
```



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Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 661 GCGCGCGCGCGCGCTGT 678
      |||||
Db 18 GCGCGCGCGCGTGGCGGT 1

RESULT 3203
US-10-310-914A-683853/c
; Sequence 683853, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 683853
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-683853

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGGG 673
      |||||
Db 18 GCGCGCGCGCGCGCGG 1

RESULT 3204
US-10-310-914A-691358/c
; Sequence 691358, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 691358
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-691358

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 GCGCAGCAGCGCGCGGG 668
      |||||
Db 18 GCGCGCGCGCGCGCGG 1

RESULT 3205
US-10-310-914A-691359/c
; Sequence 691359, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
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; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 691359
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-691359

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGGG 668
      |||||
Db 18 CGCGCGCGCGCGCGG 1

RESULT 3206
US-10-310-914A-701777/c
; Sequence 701777, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 701777
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-701777

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 294 CCTCTCTCTCTCGTCTC 311
      |||||
Db 18 CCTCTCTCTCTCTCTC 1

RESULT 3207
US-10-310-914A-701920/c
; Sequence 701920, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 701920
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-701920

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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```
QY 2308 CCAACTATGCCCATGCTG 2325
Db 18 CCAACCATGTCCATGCTG 1

RESULT 3208
US-10-310-914A-704094
; Sequence 704094, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 704094
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-704094

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 77.8%; Pred. No. 1.6e+03;
Matches 14; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 244 TCTGCAGAGGGGCGGCC 261
Db 1 UCUGCAGAGGGGCGUGCC 18

RESULT 3209
US-10-310-914A-717571/c
; Sequence 717571, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 717571
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-717571

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCGCGCGCGG 668
Db 18 CGCGCGCGCGCGCGCGG 1

RESULT 3210
US-10-310-914A-717572/c
; Sequence 717572, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 717572
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-717572

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCGCGCGCGG 668
Db 18 CGCGCGCGCGCGCGCGG 1

RESULT 3211
US-10-310-914A-720206/c
; Sequence 720206, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 720206
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-720206

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2255 TGTCTCACACCTGTGCTC 2272
Db 18 TGTCTCACACCTGTAATC 1

RESULT 3212
US-10-310-914A-720207/c
; Sequence 720207, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 720207
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-720207

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

Qy 2255 TGTCTCACACCTGTGCTC 2272  
|||  
Db 18 TGTCTCACACCTGTAATC 1

RESULT 3213

US-10-310-914A-722788/c  
; Sequence 722788, Application US/10310914A  
; Publication No. US20060003322A1

: GENERAL INFORMATION:

APPLICANT: Bentwich, Isaac

APPLICANT: Shiler, Kwizatz

INVENTOR: SUTTEL, KUDZAL  
: TITLE OF INVENTION: BIOINFORMATIC

1. TITLE OF INVENTION: BIOMIMETICALLY DERIVED

; TITLE OF INVENTION: uses thereof  
: PREFERENCE: 06087 0300 CRUSO1

```

; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: IIS/10

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3 CURRENT FILING DATE: 20021202  
4 CURRENT APPLICATION NUMBER: US/10

; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEC ID NOS: 1788498

; NUMBER OF SEQ ID NOS: 1388402

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; SOFTWARE: PatentIn version 3.3
;

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; SEQ ID NO 722788

; LENGTH: 18

; TYPE: RNA

Query Match	0.5%	Score 14.8;	DB 1;	Length 18;
Best Local Similarity	88.9%	Pred. No. 1.6e+03;		
Matches 16;	Conservative	0;	Mismatches 2;	Indels 0;
Gaps	0;			

RESULT 3214

US-10-310-914A-72316/c  
; Sequence 72316, Application US/10310914A  
; Publication No. US2006003322A1

; GENERAL INFORMATION:

APPLICANT: Bentwich, Isaac

APPLICANT: Shiler, Kvuzat

: TITLE OF INVENTION: Bioinformatics

: TITLE OF INVENTION: uses thereof

FILE REFERENCE: 06087 0200 CPUS01

FILE REFERENCE: 06087-0200:CF0501  
CURRENT APPLICATION NUMBER: IIS/10

; CURRENT APPLICATION NUMBER: US/10/  
 ; CURRENT FILING DATE: 2003-13-05

; CURRENT FILING DATE: 2002-12-06  
 ; NUMBER OF SEC ID NOS: 1388403

; NUMBER OF SEQ ID NOS: 1388402  
COMMENTS: DEFINITION: 1388402

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; SOFTWARE: PatentIn version 3.3
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; SEQ ID NO 72316

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; LENGTH: 18

```

; TYPE: RNA

Query Match	0.5%	Score 14.8;	DB 1;	Length 18;
Best Local Similarity	88.9%	Pred. No. 1.6e+03;		
Matches	16;	Conservative	0;	Mismatches 2;
				Indels 0;
				Gaps 0;

RESULT 3215

US-10-310-914A-724457/c  
; Sequence 724457, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

APPLICANT: Bentwich, Isaac

APPLICANT: SHILER, Kvyzat

: TITLE OF INVENTION: Bioinformatic

; TITLE OF INVENTION:	BIOHYDROMATICS
: TITLE OF INVENTION:	uses thereof

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; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 72844
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-72844

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      222 GGGGAGGCGGCGGCGAG 239
      ||||| ||||| ||||| |||||
DB      18 GGGGAGGCGGCGGCGGAG 1

RESULT 3221
US-10-310-914A-732229/c
; Sequence 732229, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 732229
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-732229

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      342 TCGGAGGCGGTGTGGAG 359
      ||||| ||||| ||||| |||||
DB      18 TGGGCTGGGTGTGGAG 1

RESULT 3222
US-10-310-914A-741450/c
; Sequence 741450, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 741450
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-741450

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1745 CAGGAATGCTGTGGGTG 1762
      ||||| ||||| ||||| |||||
DB      18 TGGGCTCACACTGTACTC 1

RESULT 3218
US-10-310-914A-726803/c
; Sequence 726803, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 726803
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-726803

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      651 CGGCGGCGGCGGCGGCGG 668
      ||||| ||||| ||||| |||||
DB      18 CGGCGGCGGCGGCGGCGG 1

RESULT 3219
US-10-310-914A-728206/c
; Sequence 728206, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 728206
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-728206

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      2255 TGTCTCACACTGTGCTC 2272
      ||||| ||||| ||||| |||||
DB      18 TGGGCTCACACTGTACTC 1

RESULT 3220
US-10-310-914A-72844/c
; Sequence 72844, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
```

```
Dbb 18 CAGGCATGCTGGTGGTG 1

RESULT 3223
US-10-310-914A-744516/c
; Sequence 744516, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 744516
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-744516
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCGCGCGCGG 668
|||||
Db 18 CGGCAGCGGTGGCGGG 1

RESULT 3224
US-10-310-914A-746636/c
; Sequence 746636, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 746636
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-746636
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 985 GGGCTGCGCTGGTGCT 1002
|||
Db 18 GGGTCTGGCTGGTGCT 1

RESULT 3225
US-10-310-914A-752041
; Sequence 752041, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 752041
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-752041
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 208 GGGGTGGGTGGGGGG 225
|||
Db 18 GGGTGTGGGTGGGGTGG 1

; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 752041
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-752041
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 1.6e+03;
Matches 15; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 213 TCGGGTGGGGGAGGCA 230
:|||||
Db 1 UGGGGGAGGGGAGGCA 18

RESULT 3226
US-10-310-914A-760573
; Sequence 760573, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 760573
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-760573
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 66.7%; Pred. No. 1.6e+03;
Matches 12; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 266 CCTCTGCGCTCTCTCC 283
|||
Db 1 CCUCCGCGCAGCCUCC 18

RESULT 3227
US-10-310-914A-76058/c
; Sequence 76058, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 76058
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-76058
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 208 GGGGTGGGTGGGGGG 225
|||
Db 18 GGGTGTGGGTGGGGTGG 1
```

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RESULT 3228
US-10-310-914A-760613/c
; Sequence 760613, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 760613
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-760613

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2255 TGCTCACACCTGTGCTC 2272
DB 18 TGGCTCACACCTGTGATC 1

RESULT 3229
US-10-310-914A-763015/c
; Sequence 763015, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 763015
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-763015

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCGCGCGCGCGCGG 668
DB 18 CGGCGCGCGCGCGCGG 1

RESULT 3230
US-10-310-914A-765271
; Sequence 765271, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
```

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; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 765271
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-765271

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 61.1%; Pred. No. 1.6e+03;
Matches 11; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 271 TGCCCTCCTCCTCCTCCAC 288
DB 1 UCCCUCCUCCUCCUCCCC 18

RESULT 3231
US-10-310-914A-768368
; Sequence 768368, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 768368
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-768368

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 55.6%; Pred. No. 1.6e+03;
Matches 10; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 288 CCACCTCCTCCTCCTCTCT 305
DB 1 CCUCCUCCUCCUCCUCCU 18

RESULT 3232
US-10-310-914A-771432
; Sequence 771432, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 771432
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-771432

Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 223 GGGAGGCGAGGGCGAGC 240
DB 1 GGAAGGCGAGGGCGGAGC 18
```

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RESULT 3233
US-10-310-914A-78293/c
; Sequence 78293, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 78293
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-78293

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCGCGCGCGCGG 668
   ||||| ||||| ||||| |||||
Db 18 CGGCAGCGCGCGCGCGG 1

RESULT 3234
US-10-310-914A-78294/c
; Sequence 78294, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 78294
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-78294

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCGCGCGCGCGG 668
   ||||| ||||| ||||| |||||
Db 18 CGGCAGCGCGCGCGCGG 1

RESULT 3235
US-10-310-914A-78298/c
; Sequence 78298, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
```

```
; SEQ ID NO 78298
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-78298

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 648 CAGCGCGCAGCGCGCGG 665
   ||||| ||||| ||||| |||||
Db 18 CGGCAGCGCGCGCGCGG 1

RESULT 3236
US-10-310-914A-78303/c
; Sequence 78303, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 78303
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-78303

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 645 CAGCAGCGCGCAGCGCGG 662
   ||||| ||||| ||||| |||||
Db 18 CGGCAGCGCGCGCGCGG 1

RESULT 3237
US-10-310-914A-784276/c
; Sequence 784276, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 784276
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-784276

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 14 TCTTTCTCGGGTTGGGG 31
   ||||| ||||| ||||| |||||
Db 18 TGTATTGGGGTTGGGG 1
```

```
; SEQ ID NO 784276
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-784276

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 14 TCTTTCTCGGGTTGGGG 31
   ||||| ||||| ||||| |||||
Db 18 TGTATTGGGGTTGGGG 1
```

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RESULT 3238
US-10-310-914A-78524/C
; Sequence 78524, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 78524
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-78524

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 61.1%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 211 GGTGGGGTGGGGGAGG 228
Db 18 GGAGGGGGTGGGGGAGG 1

RESULT 3239
US-10-310-914A-78786
; Sequence 78786, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 78786
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-78786

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 61.1%; Pred. No. 1.6e+03;
Matches 11; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 2645 CTCTGCCACCCCTGTTTC 2662
Db 1 CUCUGCCCAUCCUGUCC 18

RESULT 3240
US-10-310-914A-788022
; Sequence 788022, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 788022
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```
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-788022

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 61.1%; Pred. No. 1.6e+03;
Matches 11; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 292 CTCCTCTCTCTCTCTGTC 309
Db 1 CUCCUCCUCCUGCUCGCG 18

RESULT 3241
US-10-310-914A-790491/C
; Sequence 790491, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 790491
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-790491

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGG 223
Db 18 GGGGGGGGGGGTGGGGG 1

RESULT 3242
US-10-310-914A-79767/C
; Sequence 79767, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 79767
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-79767

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 648 CAGCGGCAGCAGCGGGG 665
Db 18 CGCGCGCGCGCAGCGGGG 1

RESULT 3243
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```
US-10-310-914A-79768/c
; Sequence 79768, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kruzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 79768
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-79768

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 648 CAGCGGCGGCGGCGGCGG 665
Db 18 CAGCGGCGGCGGCGGCGG 1

RESULT 3244
US-10-310-914A-798848/c
; Sequence 798848, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kruzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 798848
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-798848

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 654 CAGCAGCGGCGGCGGCGG 671
Db 18 CAGCGGCGGCGGCGGCGG 1

RESULT 3245
US-10-310-914A-807633
; Sequence 807633, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kruzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 807633
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-807633
```

```
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-807633

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 660 CGGCGGCGGCGGCGGCGT 677
Db 1 CGGCGGCGGCGGCGGCGG 18

RESULT 3246
US-10-310-914A-810423/c
; Sequence 810423, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kruzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 810423
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-810423

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 205 CGGCGGCGGCGGCGGCGG 222
Db 18 CTGCGGCGGCGGCGGCGG 1

RESULT 3247
US-10-310-914A-810429/c
; Sequence 810429, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kruzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 810429
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-810429

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 210 GGGTGGGCGTGGGCGGAG 227
Db 18 GGGTGGGCGTGGGCGGAG 1

RESULT 3248
US-10-310-914A-813673
```

```
; Sequence 813673, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Kvuzat
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 813673
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-813673
```

```
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 61.1%; Pred. No. 1.6e+03;
Matches 11; Conservative 5; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 300 CCTTCTCGTCTCTCTCC 317
||:|:|:|:|:|:|:|:|:|
Db 1 CCUUCUCCUCCUCCUCC 18
```

```
RESULT 3249
US-10-310-914A-816475/c
; Sequence 816475, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 816475
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-816475
```

```
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 651 CGCAGCAGCGCGCGCGG 668
|||||:|:|:|:|:|:|:|
Db 18 CGCGCGCGCGCGCGCGG 1
```

```
RESULT 3250
US-10-310-914A-816476/c
; Sequence 816476, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 816476
; LENGTH: 18
; TYPE: RNA
```

```
; ORGANISM: Human
US-10-310-914A-816476
```

```
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 651 CGCAGCAGCGCGCGCGG 668
|||||:|:|:|:|:|:|:|
Db 18 CGCGCGCGCGCGCGCGG 1
```

```
RESULT 3251
US-10-310-914A-81733
; Sequence 81733, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 81733
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-81733
```

```
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 61.1%; Pred. No. 1.6e+03;
Matches 11; Conservative 5; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 269 CCGCTCTCTCTCTCTCC 286
||:|:|:|:|:|:|:|
Db 1 CCUUCUCCUCCUCCUCC 18
```

```
RESULT 3252
US-10-310-914A-819218
; Sequence 819218, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 819218
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-819218
```

```
Query Match 0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 66.7%; Pred. No. 1.6e+03;
Matches 12; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 986 GCTCTGGCCCTGTGTGCTG 1003
||:|:|:|:|:|:|:|
Db 1 GCCUUGGCCAUGGUGCUG 18
```

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RESULT 3253
US-10-310-914A-819400
; Sequence 819400, Application US/10310914A
```

```

; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 819400
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-819400

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 77.8%; Pred. No. 1.6e+03;
Matches 14; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 208 GGGGGTGGGGTGGGGGG 225
      ||| ||||| ||||| ||
Db 1 GGGAGUGGGGCGGGAGG 18

RESULT 3254
US-10-310-914A-821559/c
; Sequence 821559, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 821559
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-821559

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2255 TGTCTCACACCTGTGCTC 2272
      ||| ||||| ||||| ||
Db 18 TGTCTCACACCTGTATC 1

RESULT 3255
US-10-310-914A-82386
; Sequence 82386, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 82386
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-82386

; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 82386
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-82386

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2255 TGTCTCACACCTGTGCTC 2272
      ||| ||||| ||||| ||
Db 18 TGTCTCACACCTGTATC 1

RESULT 3255
US-10-310-914A-82386/c
; Sequence 826518, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 826518
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-826518

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2255 TGTCTCACACCTGTGCTC 2272
      ||| ||||| ||||| ||
Db 18 TGGCTCACACCTGTGATC 1

RESULT 3258
US-10-310-914A-828958/c
; Sequence 828958, Application US/10310914A
; Publication No. US20060003322A1
```

```

US-10-310-914A-82386

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 645 CAGCAGCGGCAGCAGCGG 662
      ||| ||||| ||||| ||
Db 1 CAGCAGCAGCAGCAGCGG 18

RESULT 3256
US-10-310-914A-826474
; Sequence 826474, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 826474
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-826474

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 72.2%; Pred. No. 1.6e+03;
Matches 13; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 285 CCACCACCTCTCTCTCTCT 302
      ||| ||||| ||||| ||
Db 1 CCACAACCCUCCGCCUCCU 18

RESULT 3257
US-10-310-914A-826518/c
; Sequence 826518, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 826518
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-826518

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2255 TGTCTCACACCTGTGCTC 2272
      ||| ||||| ||||| ||
Db 18 TGGCTCACACCTGTGATC 1

RESULT 3258
US-10-310-914A-828958/c
; Sequence 828958, Application US/10310914A
; Publication No. US20060003322A1
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```
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 828958
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-828958

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 292 CTCCTCCTCTTCTCTGTC 309
      ||||| ||||| |||||
Db 18 CTCCTCCCCCTTCTCTC 1

RESULT 3259
US-10-310-914A-840682
; Sequence 840682, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 840682
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-840682

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 50.0%; Pred. No. 1.6e+03;
Matches 9; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

QY 2546 CACATATAGTATCTATAT 2563
      || ||: ||: ||: ||:
Db 1 CAUAUAUAUAUAUAU 18

RESULT 3260
US-10-310-914A-842304/c
; Sequence 842304, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 842304
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-842304
```

```
Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGGCGCGG 668
      ||| ||||| ||||| |||||
Db 18 CGGAGGCAGCGGCGGCGG 1

RESULT 3261
US-10-310-914A-844402/c
; Sequence 844402, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 844402
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-844402

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGGCGCGG 668
      ||||| ||||| ||||| |||||
Db 18 CGGCGGCGGCGGCGGCGG 1

RESULT 3262
US-10-310-914A-845670
; Sequence 845670, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 845670
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-845670

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 1.6e+03;
Matches 15; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 206 GGGGGGGTGGGTGGGGG 223
      ||||| ||||| ||||| |||||
Db 1 GGGGGGGUGGGGUGGGGG 18

RESULT 3263
US-10-310-914A-84848/c
; Sequence 84848, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 84848
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-84848

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 648 CAGCGCGCAGCAGCGCGG 665
Db 18 CGCGCGCGCAGCGCGG 1

RESULT 3264
US-10-310-914A-84854/c
; Sequence 84854, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 84854
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-84854

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 647 GCAGCGCGCAGCAGCGCGG 664
Db 18 CGCGCGCGCAGCGCGG 1

RESULT 3265
US-10-310-914A-852885/c
; Sequence 852885, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 852885
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-852885
```

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Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 654 CAGCAGCGCGCGCGCGG 671
Db 18 CAGAGCGCGCGCGCGG 1

RESULT 3266
US-10-310-914A-854405
; Sequence 854405, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 854405
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-854405

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 650 GCGCGCAGCAGCGCGCGG 667
Db 1 GCGCGCAGCGCGCGCGG 18

RESULT 3267
US-10-310-914A-858071/c
; Sequence 858071, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 858071
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-858071

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 289 CACCTCCTCCTCCTCCTC 306
Db 18 CACGTCCTCCTCCTCCTC 1

RESULT 3268
US-10-310-914A-859797/c
; Sequence 859797, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
```

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; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 859797
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-859797

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 282 CTTCCACCACTCTCTCT 299
Db 18 CCACCACTCTCTCTCT 1

RESULT 3269
US-10-310-914A-86280/c
; Sequence 86280, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 86280
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-86280

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2793 CAGCAGGTGCTGCTGA 2810
Db 18 CAGAGGTGACCTGCTGA 1

RESULT 3270
US-10-310-914A-866971
; Sequence 866971, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 866971
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-866971

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2793 CAGCAGGTGCTGCTGA 2810
Db 18 CAGAGGTGACCTGCTGA 1
```

```
Best Local Similarity 77.8%; Pred. No. 1.6e+03;
Matches 14; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 207 GGGGGGTGGGTGGGGG 224
Db 1 GGGGAGUGAGUGGGGG 18

RESULT 3271
US-10-310-914A-871269/c
; Sequence 871269, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 871269
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-871269

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 924 CGACGAGCTGGAGACGA 941
Db 18 CGACGAGCTGGAGAGA 1

RESULT 3272
US-10-310-914A-872009/c
; Sequence 872009, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 872009
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-872009

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGCAGCAGCGCGCGCG 668
Db 18 CGCGCGCGCGCGCGCG 1

RESULT 3273
US-10-310-914A-875912
; Sequence 875912, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
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; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 875912
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-875912

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 61.1%; Pred. No. 1.6e+03;
Matches 11; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 269 CCGCCTCTCTCTCTCTCTCC 286
Db 1 CCUCCUCCUCCUCCUCC 18

RESULT 3274
US-10-310-914A-87750/c
; Sequence 87750, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 87750
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-87750

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGCGCAGCGCGCGCGG 668
Db 18 CGCGCGCGCGCGCGG 1

RESULT 3275
US-10-310-914A-880041
; Sequence 880041, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 880041
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-880041

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 66.7%; Pred. No. 1.6e+03;
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```
Matches 12; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 282 CCTCCACCACTCTCTCT 299
Db 1 CCUCCUCCUCCUCCUCC 18

RESULT 3276
US-10-310-914A-880735
; Sequence 880735, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 880735
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-880735

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 77.8%; Pred. No. 1.6e+03;
Matches 14; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1887 TGTACCAAGCGCCACCCCA 1904
Db 1 UGUACCAAGCGCCACCCCA 18

RESULT 3277
US-10-310-914A-881409/c
; Sequence 881409, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 881409
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-881409

Query Match          0.5%; Score 14.8; DB 1; Length 18;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 474 GAAGGAGGAGATGGCCAA 491
Db 18 GAAGGAGGAGGATGGCCAA 1

RESULT 3278
US-10-310-914A-881883/c
; Sequence 881883, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
```





; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 899491  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-899491

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 83.3%; Pred. No. 1.6e+03;  
Matches 15; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 208 GGGGGTGGGGTGGGGGGG 225  
DB 1 GGUGGGGGGGGGGGGGG 18

## RESULT 3284

US-10-310-914A-899566/c  
; Sequence 899566, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 899566  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-899566

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGCGG 673  
DB 18 GCGGCGCGCGCGCGGTG 1

## RESULT 3285

US-10-310-914A-899583/c  
; Sequence 899583, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 899583  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-899583

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668  
DB 18 CGGCGCGCGCGCGCGG 1

## RESULT 3286

US-10-310-914A-899584/c  
; Sequence 899584, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 899584  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-899584

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668  
DB 18 CGGCGCGCGCGCGCGG 1

## RESULT 3287

US-10-310-914A-901668  
; Sequence 901668, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 901668  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-901668

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 83.3%; Pred. No. 1.6e+03;  
Matches 15; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 211 GGTGGGGTGGGGCGGAGG 228  
DB 1 GGUGGGGAGGUGGGGAGG 18

## RESULT 3288

US-10-310-914A-90228/c  
; Sequence 90228, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 90228  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-90228

; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 90228  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-90228

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 660 CGCGCGCGCGGGGGTGT 677  
Db 18 CGGAGCGCGCGGGCGGTG 1

## RESULT 3289

US-10-310-914A-908149/c  
; Sequence 908149, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 908149  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-908149

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGCGCAGCAGCGGGCGG 668  
Db 18 CGCGCGCAGCGGCGGCGG 1

## RESULT 3290

US-10-310-914A-908180  
; Sequence 908180, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 908180  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-908180

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 643 GGCAGCAGCGGCGGCGG 660

Db 1 GCGCGCAGCGGCGGCGG 18

## RESULT 3291

US-10-310-914A-918141/c  
; Sequence 918141, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 918141  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-918141

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGCGCAGCAGCGGGCGG 668  
Db 18 CGGCGCGCGGCGGCGGCGG 1

## RESULT 3292

US-10-310-914A-918372  
; Sequence 918372, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 918372  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-918372

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 55.6%; Pred. No. 1.6e+03;  
Matches 10; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 288 CCACCTCCTCCTCCTTCT 305  
Db 1 CGCCCUUCUCCUCCUUCU 18

## RESULT 3293

US-10-310-914A-918377  
; Sequence 918377, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 918377  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-918377

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 55.6%; Pred. No. 1.6e+03;  
Matches 10; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 289 CACCTCTCTCTCTCTTC 306  
|||:|:|:|:|:|:|:  
Db 1 CCCCTCUCUCCUCCUCCUC 18

## RESULT 3294

US-10-310-914A-922272/c  
; Sequence 922272, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 922272  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-922272

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGTGGGTGGGGGGGA 226  
|||:|:|:|:|:|:|:  
Db 18 CGAGTTGGGTGGGGGGGA 1

## RESULT 3295

US-10-310-914A-924919  
; Sequence 924919, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 924919  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-924919

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 77.8%; Pred. No. 1.6e+03;  
Matches 14; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 210 GGGTGGGTGGGGGGAG 227  
|||:|:|:|:|:|:|:

Db 1 GGGUGGGGUGGGCGGGG 18

## RESULT 3296

US-10-310-914A-933683/c  
; Sequence 933683, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 933683  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-933683

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 648 CAGCGCAGCAGCGGGG 665  
|||:|:|:|:|:|:|:  
Db 18 CGCGCGCGCAGCGGGG 1

## RESULT 3297

US-10-310-914A-938141/c  
; Sequence 938141, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 938141  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-938141

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCGCAGCAGCGGGG 668  
|||:|:|:|:|:|:|:  
Db 18 CGGCGCGCGCGGGG 1

## RESULT 3298

US-10-310-914A-941511/c  
; Sequence 941511, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 941511  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-941511

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 659 GCGCGCGCGCGCGCGCT 676  
Db 18 GCTGCGCGCGCGCGCT 1

## RESULT 3299

US-10-310-914A-943903/c  
; Sequence 943903, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 943903  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-943903

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1522 CTCGCGCGCCAGCACCAC 1539  
Db 18 CTCGCGCGCCAGCACCATC 1

## RESULT 3300

US-10-310-914A-945629/c  
; Sequence 945629, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 945629  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-945629

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGGGA 226  
Db 18 GGGGTGGGGGAGGGGA 1

## RESULT 3301

US-10-310-914A-94846/c  
; Sequence 94846, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 94846  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-94846

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGG 668  
Db 18 CGCGCGCGCGCGCGG 1

## RESULT 3302

US-10-310-914A-94847/c  
; Sequence 94847, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 94847  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-94847

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGG 668  
Db 18 CGCGCGCGCGCGCGG 1

## RESULT 3303

US-10-310-914A-94848/c  
; Sequence 94848, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402

```

; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 94848
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-94848

```

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

RESULT 3304
US-10-310-914A-94849/c
; Sequence 94849, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvnzat
; TITLE OF INVENTION: Bioinformatically d
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,9
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 94849
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-94849

```

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

RESULT 3305
US-10-310-914A-949568
; Sequence 949568, Application US/10310914A
; Publication No. US2006000322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shlier, Kuzat
; TITLE OF INVENTION: Bioinformatically de
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,91
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 949568
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-949568

```

Query Match	0.58;	Score 14.8;	DB 1;	Length 18;
Best Local Similarity	77.8;	Pred. No. 1.6e+03;		
Matches 14;	Conservative 2;	Mismatches 2;	Indels 0;	Gaps 0;
QY	1070	GGCGGCCAGGGTGCTAG	1087	
Db	1	GGGAGGCCAAGGUGGUAG	18	

```

RESULT 3306
US-10-310-914A-969283/c
; Sequence 969283, Application US/10310914A
; Publication No. US2006000322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shilar, Kyuzat
; TITLE OF INVENTION: Bioinformatically deter
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: Patent in version 3.3
; SEQ ID NO 969283
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-969283

```

```

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. NO. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      651 CGGCAGCAGCGCGCGG 668
Db      18 CGGCGGCGGCGGCGG 1

```

```

RESULT 3307
US-10-310-914A-97658/c
; Sequence 97658, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kuznat
; TITLE OF INVENTION: Bioinformatically determined
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 97658
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-97658

```

Query Match	0.5%	Score 14.8;	DB 1;	Length 18;
Best Local Similarity	88.9%	Pred. No. 1.6e+03;		
Matches 16;	Conservative	0;	Mismatches 2;	Indels 0; Gaps 0;
Qy	654	CACACAGCGCGCGCGG	671	
Db	18	CACCTGCGCGCGCGGG	1	

```

RESULT 3308
US-10-310-914A-980288
; Sequence 980288, Application US/10310914A
; Publication No. US2006000322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvyuzat
; TITLE OF INVENTION: Bioinformatically de
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310.91
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: Patgen version 3.3

```

; SEQ ID NO 980288  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-980288

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 652 GCAGCAGCGCGCGCGC 669  
|||||  
Db 1 GCAGCAGCAGUGCGCGC 18

## RESULT 3309

US-10-310-914A-982513  
; Sequence 982513, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 982513  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-982513

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGCGCAGCGCGCGCGC 668  
|||||  
Db 1 CGCGCAGCGCGCGCGC 18

## RESULT 3310

US-10-310-914A-982563/c  
; Sequence 982563, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 982563  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-982563

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2362 GAAAGACAGACAGACAGA 2379  
|||||  
Db 18 GAGAGACAGACAGACAGA 1

## RESULT 3311

US-10-310-914A-982975/c  
; Sequence 982975, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 982975  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-982975

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGG 673  
|||||  
Db 18 GCGCGCGCGCGCGCGG 1

## RESULT 3312

US-10-310-914A-982983/c  
; Sequence 982983, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 982983  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-982983

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 653 GCAGCAGCGCGCGCGG 670  
|||||  
Db 18 GCGCGCGCGCGCGCGG 1

## RESULT 3313

US-10-310-914A-983282/c  
; Sequence 983282, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 983282

; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-983282

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 479 AGGAGTGGCCAGGCGG 496  
|||||  
Db 18 AGGAGCAGCCAGGCGG 1

## RESULT 3314

US-10-310-914A-983799/c  
; Sequence 983799, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 983799  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human

US-10-310-914A-983799

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGGCGG 668  
|||||  
Db 18 CGGCAGCGCGGCGGCGG 1

## RESULT 3315

US-10-310-914A-983800/c  
; Sequence 983800, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 983800  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human

US-10-310-914A-983800

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGGCGG 668  
|||||  
Db 18 CGGCAGCGCGGCGGCGG 1

## RESULT 3316

US-10-310-914A-983801/c  
; Sequence 983801, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 983801  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human

US-10-310-914A-983801

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGGCGG 668  
|||||  
Db 18 CGGCAGCGCGGCGGCGG 1

## RESULT 3317

US-10-310-914A-983959  
; Sequence 983959, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 983959  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human

US-10-310-914A-983959

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 83.3%; Pred. No. 1.6e+03;  
Matches 15; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 900 GCGCGGGGGTGGCGGCGG 917  
|||||  
Db 1 GCGCGGGGGGUGGGGAGG 18

## RESULT 3318

US-10-310-914A-984916/c  
; Sequence 984916, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 984916  
; LENGTH: 18

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; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-984916

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 273 CTTCTCTCTCTCTCCACCA 290
      ||||| ||||| |||||
Db 18 CTTCTCTCTCTCTCCACCA 1

RESULT 3319
US-10-310-914A-99047/c
; Sequence 99047, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 99047
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-99047

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
      ||||| ||||| |||||
Db 1 CGGCAGCAGCGCGCGCGG 18

RESULT 3320
US-10-310-914A-991896/c
; Sequence 991896, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 991896
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-991896

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 1.6e+03;
Matches 15; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 214 GCGGTGGGGGGGCGGCGAG 231
      ||||| ||||| |||||
Db 1 GCGGTGGGGGGGCGGCGAG 18

RESULT 3321
US-10-310-914A-991995/c
; Sequence 991995, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 991995
; LENGTH: 18
; TYPE: RNA
US-10-310-914A-991995

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
      ||||| ||||| |||||
Db 1 CGGCAGCAGCGCGCGCGG 18

RESULT 3322
US-10-310-914A-993968/c
; Sequence 993968, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 993968
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-993968

Query Match      0.5%; Score 14.8; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGGCAGCAGCGCGCGCGG 668
      ||||| ||||| |||||
Db 1 CGGCAGCAGCGCGCGCGG 18

RESULT 3323
US-10-310-914A-995031/c
; Sequence 995031, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 995031
; LENGTH: 18
; TYPE: RNA
US-10-310-914A-995031
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; ORGANISM: Human  
US-10-310-914A-995031

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 890 GCCCGGACGGCGGGCGGG 907  
||||| ||| |||||  
Db 18 GCCCGGGCGGGCGGGCGG 1

## RESULT 3324

US-10-858-341-990/c  
; Sequence 990, Application US/10858341  
; Publication No. US20050287667A1  
; GENERAL INFORMATION:  
; APPLICANT: Sheiknejad, Reza  
; APPLICANT: Sooch, Mina P.  
; APPLICANT: Goodwin, Neal  
; APPLICANT: Olson, David  
; TITLE OF INVENTION: Methods and Compositions for the Inhibition of Gene Expression  
; FILE REFERENCE: PRONAI-09053  
; CURRENT APPLICATION NUMBER: US/10/858,341  
; CURRENT FILING DATE: 2004-06-01  
; NUMBER OF SEQ ID NOS: 1439  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 990  
; LENGTH: 18  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic  
; FEATURE:  
; NAME/KEY: modified\_base  
; LOCATION: (2)..(2)  
; OTHER INFORMATION: methylated C nucleotide  
; FEATURE:  
; NAME/KEY: modified\_base  
; LOCATION: (5)..(5)  
; OTHER INFORMATION: methylated C nucleotide  
; FEATURE:  
; NAME/KEY: modified\_base  
; LOCATION: (11)..(11)  
; OTHER INFORMATION: methylated C nucleotide  
; FEATURE:  
; NAME/KEY: modified\_base  
; LOCATION: (14)..(14)  
; OTHER INFORMATION: methylated C nucleotide  
; FEATURE:  
; NAME/KEY: modified\_base  
; LOCATION: (17)..(17)  
; OTHER INFORMATION: methylated C nucleotide  
US-10-858-341-990

Query Match 0.5%; Score 14.8; DB 1; Length 18;  
Best Local Similarity 88.9%; Pred. No. 1.6e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 651 CGCGCAGCGGGCGGGCGG 668  
||||| ||| |||||  
Db 18 CGCGCGGGCGGGCGGGCGG 1

## RESULT 3325

US-10-858-341-991/c  
; Sequence 991, Application US/10858341  
; Publication No. US20050287667A1  
; GENERAL INFORMATION:

; APPLICANT: Sheiknejad, Reza  
; APPLICANT: Sooch, Mina P.  
; APPLICANT: Goodwin, Neal  
; APPLICANT: Olson, David  
; TITLE OF INVENTION: Methods and Compositions for the Inhibition of Gene Expression  
; FILE REFERENCE: PRONAI-09053  
; CURRENT APPLICATION NUMBER: US/10/858,341  
; CURRENT FILING DATE: 2004-06-01  
; NUMBER OF SEQ ID NOS: 1439  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 991  
; LENGTH: 16  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic  
; FEATURE:  
; NAME/KEY: modified\_base  
; LOCATION: (2)..(2)  
; OTHER INFORMATION: methylated C nucleotide  
; FEATURE:  
; NAME/KEY: modified\_base  
; LOCATION: (5)..(5)  
; OTHER INFORMATION: methylated C nucleotide  
; FEATURE:  
; NAME/KEY: modified\_base  
; LOCATION: (8)..(8)  
; OTHER INFORMATION: methylated C nucleotide  
; FEATURE:  
; NAME/KEY: modified\_base  
; LOCATION: (11)..(11)  
; OTHER INFORMATION: methylated C nucleotide  
; FEATURE:  
; NAME/KEY: modified\_base  
; LOCATION: (14)..(14)  
; OTHER INFORMATION: methylated C nucleotide  
US-10-858-341-991

Query Match 0.5%; Score 14.4; DB 1; Length 16;  
Best Local Similarity 93.8%; Pred. No. 1.3e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGGGCGGGCGGG 671  
||||| ||| |||||  
Db 16 GCGGCGGGCGGGCGGG 1

## RESULT 3326

US-10-310-914A-1001383  
; Sequence 1001383, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiller, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1001383  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1001383

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 75.0%; Pred. No. 1.8e+03;  
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 2535 AGACATATATGCACAT 2550  
||||| :|||:

Db 1 AGACAAUAUGCACA 16

RESULT 3327

US-10-310-914A-1001466

; Sequence 1001466, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 1001466

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-1001466

Query Match 0.5%; Score 14.4; DB 1; Length 18;

Best Local Similarity 75.0%; Pred. No. 1.8e+03;

Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 2535 AGACATATATGCACAT 2550

||||| |:|||||

Db 2 AGACAAUAUGCACA 17

RESULT 3328

US-10-310-914A-1001966/c

; Sequence 1001966, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 1001966

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-1001966

Query Match 0.5%; Score 14.4; DB 1; Length 18;

Best Local Similarity 93.8%; Pred. No. 1.8e+03;

Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 303 TCTCGTCTCTCTCCCC 318

||||| |:|||||

Db 17 TCTCTCTCTCTCTCCCC 2

RESULT 3329

US-10-310-914A-1006057/c

; Sequence 1006057, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 1006057

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-1006057

Query Match 0.5%; Score 14.4; DB 1; Length 18;

Best Local Similarity 93.8%; Pred. No. 1.8e+03;

Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 207 GCGGGGTGGGTGGG 222

||||| |:|||||

Db 16 GCGGGGTGGGTGGG 1

RESULT 3330

US-10-310-914A-1008512/c

; Sequence 1008512, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 1008512

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-1008512

Query Match 0.5%; Score 14.4; DB 1; Length 18;

Best Local Similarity 93.8%; Pred. No. 1.8e+03;

Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2759 TCCAGGCTGCTCTCA 2774

||||| |:|||||

Db 18 TCCGGGCTGCTCTCA 3

RESULT 3331

US-10-310-914A-101436/c

; Sequence 101436, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 101436

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-101436

Query Match 0.5%; Score 14.4; DB 1; Length 18;

Best Local Similarity 93.8%; Pred. No. 1.8e+03;

Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 646 AGCAGCGGCAGCAGCG 661

||||| |:|||||

Db 17 AGCGGGGCAGCAGCG 2

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; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1038179
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1038179

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 68.8%; Pred. No. 1.8e+03;
Matches 11; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 2173 CTGCTCAGTCTGCTGGG 2188
    |||:|||||:|||||
Db 3 CUUCUCAGUGCGUGGG 18

RESULT 3335
US-10-310-914A-1041600
; Sequence 1041600, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1041600
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1041600

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 655 AGCAGCGGCGGCGGCG 670
    |||:|||||:|||||
Db 2 AGCGGCGGCGGCGGCG 17

RESULT 3336
US-10-310-914A-1041668
; Sequence 1041668, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1041668
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1041668

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 75.0%; Pred. No. 1.8e+03;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 2731 CCTGGGACCTGCCCT 2746
    |||:|||||:|||||
Db 3 CCUGGCGGCGGCGGCG 18

; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1038179
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1038179

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 68.8%; Pred. No. 1.8e+03;
Matches 11; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 2173 CTGCTCAGTCTGCTGGG 2188
    |||:|||||:|||||
Db 3 CUUCUCAGUGCGUGGG 18

RESULT 3335
US-10-310-914A-1041600
; Sequence 1041600, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1041600
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1041600

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 655 AGCAGCGGCGGCGGCG 670
    |||:|||||:|||||
Db 2 AGCGGCGGCGGCGGCG 17

RESULT 3336
US-10-310-914A-1041668
; Sequence 1041668, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1041668
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1041668

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 75.0%; Pred. No. 1.8e+03;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 2731 CCTGGGACCTGCCCT 2746
    |||:|||||:|||||
Db 3 CCUGGCGGCGGCGGCG 18

; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1038179
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1038179

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 68.8%; Pred. No. 1.8e+03;
Matches 11; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 2173 CTGCTCAGTCTGCTGGG 2188
    |||:|||||:|||||
Db 3 CUUCUCAGUGCGUGGG 18

RESULT 3335
US-10-310-914A-1041600
; Sequence 1041600, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1041600
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1041600

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 655 AGCAGCGGCGGCGGCG 670
    |||:|||||:|||||
Db 2 AGCGGCGGCGGCGGCG 17

RESULT 3336
US-10-310-914A-1041668
; Sequence 1041668, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1041668
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1041668

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 75.0%; Pred. No. 1.8e+03;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 2731 CCTGGGACCTGCCCT 2746
    |||:|||||:|||||
Db 3 CCUGGCGGCGGCGGCG 18
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RESULT 3337
US-10-310-914A-1053739
; Sequence 1053739, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1053739
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1053739

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGG 671
Db 3 GCGGCGCGCGCGCGG 18

RESULT 3338
US-10-310-914A-1069949/c
; Sequence 1069949, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1069949
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1069949

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 263 CCACCTCTCTCCCT 278
Db 16 CCACCTCTCTCTCCT 1

RESULT 3339
US-10-310-914A-1070346
; Sequence 1070346, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
```

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; SEQ ID NO 1070346
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1070346

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 251 AAGGGCGCGCCACC 266
Db 2 AAGGGCGAGCCACC 17

RESULT 3340
US-10-310-914A-1082019/c
; Sequence 1082019, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1082019
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1082019

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 897 CGGGGCGGGGTGGC 912
Db 18 CTGGGCGGGGTGGC 3

RESULT 3341
US-10-310-914A-1083004/c
; Sequence 1083004, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1083004
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1083004

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 273 CCTCCTCTCTCTCC 288
Db 16 CCTCCTCTCTCTCTC 1
```

```
RESULT 3342
US-10-310-914A-1089499/c
; Sequence 1089499, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1089499
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1089499

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 256 GCCGCCACCACCTCT 271
   |||||
Db 16 GCCGCCACCACCACCT 1

RESULT 3343
US-10-310-914A-1090706/c
; Sequence 1090706, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1090706
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1090706

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 209 GCGGTGGGTGGGGG 224
   |||||
Db 17 GCGGTGGGTGGGGG 2

RESULT 3344
US-10-310-914A-1090767/c
; Sequence 1090767, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1090767
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; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1090767

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGGCGGGCGGGG 674
   |||||
Db 17 GCGGGCGGGCGGGG 2

RESULT 3345
US-10-310-914A-1092518/c
; Sequence 1092518, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1092518
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1092518

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2729 TACCTGGGACCTGCCC 2744
   |||||
Db 16 TGCCTGGGACCTGCCC 1

RESULT 3346
US-10-310-914A-1093355/c
; Sequence 1093355, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1093355
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1093355

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 859 GATGCTGAAGGCGCAC 874
   |||||
Db 16 GACGCTGAAGGCGCAC 1

RESULT 3347
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US-10-310-914A-1097256/c  
; Sequence 1097256, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1097256  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1097256

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 209 GGGGTGGGGTGGGGG 224  
||| ||||| ||||| |||||  
Db 18 GGAGTGGGGTGGGGG 3

RESULT 3348  
US-10-310-914A-1098065  
; Sequence 1098065, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1098065  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1098065

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 644 GCAGCAGCGGCAGCAG 659  
||| ||||| ||||| |||||  
Db 3 GCAGCAGCGGCAGCAG 18

RESULT 3349  
US-10-310-914A-1112535/c  
; Sequence 1112535, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1112535  
; LENGTH: 18

; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1112535

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 294 CCTCCTCTTCTCTGC 309  
||| ||||| ||||| |||||  
Db 18 CCTCCTCTTCTCTTC 3

RESULT 3350  
US-10-310-914A-1114209/c  
; Sequence 1114209, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1114209  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1114209

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 578 CCGCCTTGCCTGGCT 593  
||| ||||| ||||| |||||  
Db 16 CCAGCCTTGCCTGGCT 1

RESULT 3351  
US-10-310-914A-1124379  
; Sequence 1124379, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1124379  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1124379

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 62.5%; Pred. No. 1.8e+03;  
Matches 10; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 2538 CATATATGCACATATA 2553  
||| :||| :||| :|||  
Db 3 CAUAUAUACACUAUA 18

RESULT 3352  
US-10-310-914A-1125848/c

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; Sequence 1125848, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1125848
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1125848

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 550 CGCAGCACCTGGCA 565
Db 16 CGCAGCACCTGGCA 1

RESULT 3353
US-10-310-914A-113183/c
; Sequence 113183, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 113183
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-113183

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 210 GGGTGGGTGGGGGG 225
Db 17 GGGTGGGTGGGGAGG 2

RESULT 3354
US-10-310-914A-1145658/c
; Sequence 1145658, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1145658
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1145658
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; ORGANISM: Human
US-10-310-914A-1145658

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2662 CCCACCCCTCTTCC 2677
Db 17 CCGACCCCTCTTCC 2

RESULT 3355
US-10-310-914A-1146243
; Sequence 1146243, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1146243
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1146243

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 650 GCGGAGCAGCGCGG 665
Db 3 GCGGAGCAGCGCGG 18

RESULT 3356
US-10-310-914A-115106/c
; Sequence 115106, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 115106
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-115106

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 79 GAGACCCCGACCCCT 94
Db 16 GAGACCCCGACCCCT 1

RESULT 3357
US-10-310-914A-115740
; Sequence 115740, Application US/10310914A
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; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 115740  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-115740

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1221 GGAGGTAGAAACAGAA 1236  
||||| |||||  
Db 3 GGAGGAAGAAACAGAA 18

## RESULT 3358

US-10-310-914A-117104  
; Sequence 117104, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 117104  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-117104

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGGCGCGGGG 674  
||||| |||||  
Db 1 GCGGCGGCGCGGGG 16

## RESULT 3359

US-10-310-914A-1183701/c  
; Sequence 1183701, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1183701  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human

## US-10-310-914A-1183701

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 213 TGGGGTGGGGGGAGG 228  
||||| |||||  
Db 18 TGGGGTGGGGGGAGG 3

## RESULT 3360

US-10-310-914A-1197636  
; Sequence 1197636, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1197636  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1197636

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 81.2%; Pred. No. 1.8e+03;  
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2083 CCCCTGGCCTCGGCC 2098  
||||| |||||  
Db 3 CCCUGGCCUCAGCCC 18

## RESULT 3361

US-10-310-914A-1207522  
; Sequence 1207522, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1207522  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1207522

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 75.0%; Pred. No. 1.8e+03;  
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 276 CCTCTCTCTCCACCAC 291  
||||| |||||  
Db 3 CCUCCUCCUGCACCAC 18

## RESULT 3362

US-10-310-914A-121408/c  
; Sequence 121408, Application US/10310914A  
; Publication No. US20060003322A1



```
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 121408
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-121408

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 210 GGGTGGGTGGGGGG 225
Db 18 GGGTGGGTGGGAGG 3

RESULT 3363
US-10-310-914A-1219801/c
; Sequence 1219801, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1219801
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1219801

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 270 CTGCTCTCTCTCTCTC 285
Db 16 CGGCTCTCTCTCTCTC 1

RESULT 3364
US-10-310-914A-1219875/c
; Sequence 1219875, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1219875
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1219875
```

```
Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 859 GATGCTGAAGAGGCAC 874
Db 16 GACGCTGAAGAGGCAC 1
```

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RESULT 3365
US-10-310-914A-1220390/c
; Sequence 1220390, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1220390
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1220390
```

```
Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 123 CCTCCTGCTCCCTCA 138
Db 18 CCTCCAGCCTCCCTCA 3
```

```
RESULT 3366
US-10-310-914A-1224554/c
; Sequence 1224554, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1224554
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1224554
```

```
Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2121 CCTGAGACGCTCAGGC 2136
Db 16 CCTGAGACGCTCAGGC 1
```

```
RESULT 3367
US-10-310-914A-1232498/c
; Sequence 1232498, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
```

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; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1232498
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1232498

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2254 GTGCTCACACCTGTG 2269
   ||| ||||| ||||| |||
Db 16 GTGGCTCACACCTGTG 1

RESULT 3368
US-10-310-914A-1237033/c
; Sequence 1237033, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1237033
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1237033

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGGCGCGGGG 674
   ||||| ||||| ||||| |||
Db 16 GCGGCGGCGCGGAGG 1

RESULT 3369
US-10-310-914A-1245489/c
; Sequence 1245489, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1245489
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1245489
```

```
Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 962 AGCGCTGGGCCCCCA 977
   ||||| ||||| ||||| |||
Db 18 AGCGCCAGGGCCCCCA 3

RESULT 3370
US-10-310-914A-1250289/c
; Sequence 1250289, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1250289
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1250289

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2750 GCTGGGTGTCCTCCAG 2765
   ||||| ||||| ||||| |||
Db 18 GCTGGGTGTCCTCTGG 3

RESULT 3371
US-10-310-914A-1256786/c
; Sequence 1256786, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1256786
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1256786

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 270 CTGCTCTCTCTCTCTC 285
   ||||| ||||| ||||| |||
Db 17 CTCTCTCTCTCTCTCTC 2

RESULT 3372
US-10-310-914A-1256909/c
; Sequence 1256909, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
```

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; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 1256909
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1256909

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 904 GGGGGTGGCGCAGGCG 919
Db 18 GGGGGTGGCAGGCG 3

RESULT 3373
US-10-310-914A-1257137
; Sequence 1257137, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 1257137
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1257137

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 81.2%; Pred. No. 1.8e+03;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 211 GGTGGGTGGCGGGGA 226
Db 1 GGUGGGGUGGGAGGA 16

RESULT 3374
US-10-310-914A-1259377/c
; Sequence 1259377, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 1259377
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1259377

Query Match      0.5%; Score 14.4; DB 1; Length 18;
```

```
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 17 TTCTGGGGTTGGGGG 32
Db 16 TTCTGGGGTTGGGGG 1

RESULT 3375
US-10-310-914A-1263801/c
; Sequence 1263801, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 1263801
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1263801

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 270 CTGCCTCTCTCTCTCTC 285
Db 16 CCGCCTCTCTCTCTCTC 1

RESULT 3376
US-10-310-914A-1267485
; Sequence 1267485, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 1267485
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1267485

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 75.0%; Pred. No. 1.8e+03;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 308 TCTCTCTCTCTCTCTCTC 323
Db 2 UCCCCUCCCCCUCCCC 17

RESULT 3377
US-10-310-914A-1269435
; Sequence 1269435, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
```

```
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1269435
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1269435

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGGCGGCGGGG 674
      ||||| ||||| ||
Db 1 GCGGCGGCGGCGGUG 16

RESULT 3378
US-10-310-914A-1279760
; Sequence 1279760, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1279760
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1279760

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 68.8%; Pred. No. 1.8e+03;
Matches 11; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 2665 CACCCCTCTCTCTCTC 2680
      ||||| :||| :|
Db 1 CACCCCTCTCTCTCTC 2680

RESULT 3379
US-10-310-914A-1295142
; Sequence 1295142, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1295142
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1295142

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 650 GCGGCGGCGGCGGCGG 665
      ||||| ||||| |||||
Db 1 GCGGCGGCGGCGGCGG 16

RESULT 3380
US-10-310-914A-1295193/c
; Sequence 1295193, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1295193
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1295193

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1563 CCTGGCCCTGGGTGTG 1578
      ||||| ||||| |||||
Db 16 CCTGGCCCTGGGTGTG 1

RESULT 3381
US-10-310-914A-1312143
; Sequence 1312143, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1312143
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-1312143

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 56.2%; Pred. No. 1.8e+03;
Matches 9; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 2836 TCTGGGTCTACTGCTT 2851
      :||| :||| :||| :
Db 3 UCUGGGGUGCCUGCUU 18

RESULT 3382
US-10-310-914A-1316887/c
; Sequence 1316887, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
```

; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1316887  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1316887

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 377 GCGGAGCCCCGAGC 392  
DB 16 GCGGAGCCCCCAGC 1

RESULT 3383  
US-10-310-914A-1321752  
; Sequence 1321752, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1321752  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1321752

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGCGCGCGGGG 674  
DB 1 GCGGCGCGCGGAGGG 16

RESULT 3384  
US-10-310-914A-132902  
; Sequence 132902, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 132902  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-132902

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 87.5%; Pred. No. 1.8e+03;  
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2014 GCAGACTCCAGCAGA 2029  
DB 2 GCAGACUCCAGGCAGA 17  
RESULT 3385  
US-10-310-914A-132997  
; Sequence 132997, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 132997  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-132997

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 75.0%; Pred. No. 1.8e+03;  
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 273 CCTCTCTCTCTCCAC 288  
DB 1 CCACCUCUCCUCCAC 16

RESULT 3386  
US-10-310-914A-1330307  
; Sequence 1330307, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1330307  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1330307

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 87.5%; Pred. No. 1.8e+03;  
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 898 GGGGGCGGGGTGGCG 913  
DB 2 GGGGGAGGGGUGGCG 17

RESULT 3387  
US-10-310-914A-1339385  
; Sequence 1339385, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1339385  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1339385

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 56.2%; Pred. No. 1.8e+03;  
Matches 9; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 291 CCTCTCTCTCTCTCTC 306  
||:|:|:|:|:|:|  
Db 3 CCUCCUCCUCCUCCUC 18

RESULT 3388  
US-10-310-914A-1370760/c  
; Sequence 1370760, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1370760  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1370760

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 110 ACCCTGCTCTTCACT 125  
|||||  
Db 17 ACCCTGCTCTTCTCT 2

RESULT 3389  
US-10-310-914A-1377998/c  
; Sequence 1377998, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1377998  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1377998

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 650 GCGGCAGCAGCGCGG 665  
|||||  
Db 16 GCGGCAGCAGCGCGG 1

RESULT 3390  
US-10-310-914A-1382651/c  
; Sequence 1382651, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 1382651  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-1382651

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 208 GGGGGTGGGTGGGG 223  
|||||  
Db 16 GGGGCTGGGTGGGG 1

RESULT 3391  
US-10-310-914A-141447/c  
; Sequence 141447, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 141447  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-141447

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGG 671  
|||||  
Db 16 GCGGCGCGCGCGCGG 1

RESULT 3392  
US-10-310-914A-149483/c  
; Sequence 149483, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01

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; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 14983
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-14983

```

Query Match	0.5%	Score 14.4;	DB 1;	Length 18;
Best Local Similarity	93.8%	Pred. No. 1.8e+03;		
Matches 15;	Conservative	0;	Mismatches 1;	Indels 0;
Gaps	0;			

Qy 211 GGTGGCGTGGCGGGA 226  
|||  
Db 16 GGTGGCGTGGGTGCGGA 1

RESULT 3393  
US-10-310-914A-153348  
; Sequence 153348, Application US/10310914A  
; Publication No. US20060003322A1

Query Match	0.5%	Score 14.4;	DB 1;
Best Local Similarity	81.2%	Pred. No. 1.8e+03;	
Matches 13;	Conservative	2;	Mismatches 1; Indels 0; Gaps 0;

Qy 2057 ATGAGGAGGGAGCTGG 2072  
Db 3 AUGAGGAGGGGGCTUGG 18

RESULT 3394  
US-10-310-914A-167701/C  
; Sequence 167701, Application US/10310914A  
; Publication No. US20060003322A1

Query Match	0.5%	Score 14.4;	DB 1;	Length 18;
Best Local Similarity	93.8%	Pred. No. 1.8e+03;		
Matches 15: Conservative	0;	Mismatches 1;	Indels 0;	Gaps 0;

Qy 656 GCAGCGGCGGCGG 671

Db  
16 GCGGCGGCGGCGCGG 1

```

RESULT 3395
US-10-310-914A-172251
; Sequence 172251, Application US/10310914A
; Publication No. US2006000332A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kyzrat
; TITLE OF INVENTION: Bioinformatically deter
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 172251
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-172251

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Query Match	0.5%	Score 14.4;	DB 1;	Length 18;
Best Local Similarity	62.5%;	Pred. No. 1.8e+03;		
Matches 10;	Conservative	5;	Mismatches 1;	Indels 0;
				Gaps 0;

Qy 291 C T C C T C C T C C T T C T C 306  
||:|:|:|:|:|:|:  
Db 1 C T C C G C C C C C C T C 16

RESULT 3396  
US-10-310-914A-173923/c  
; Sequence 173923, Application US/10310914A  
; Publication No. US20060003322A1

Query Match	0.5%	Score 14.4;	DB 1;	Length 18;
Best Local Similarity	93.8%	Pred. No. 1.8e+03;		
Matches 15;	Conservative	0;	Mismatches 1;	Indels 0;
			Gaps	0;

Qy 656 GCAGCGCGCGCGCGG 671  
Db 16 GCGCGCGCGCGCGG 1

```

RESULT 3397
US-10-310-914A-178258/c
; Sequence 178258, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically de
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310.91

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; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 178258
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-178258

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 139 GGTCTCTCTCGCCAAA 154
      ||||| ||||| |||||
Db 16 GGTCTCTCTCGCCAAA 1

RESULT 3398
US-10-310-914A-184600/c
; Sequence 184600, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 184600
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-184600

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 207 GGGGGGTGGGTGGG 222
      ||||| ||||| |||||
Db 17 GGGGGATGGGTGGG 2

RESULT 3399
US-10-310-914A-189561/c
; Sequence 189561, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 189561
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-189561

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2480 CTCTCAGGCCGAG 2495
      ||||| ||||| |||||
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Db 17 CTCTCAGGCCGAG 2

RESULT 3400
US-10-310-914A-189738/c
; Sequence 189738, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 189738
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-189738

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCG 671
      ||||| ||||| |||||
Db 16 GCGCGCGCGCGCGCG 1

RESULT 3401
US-10-310-914A-190230
; Sequence 190230, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 190230
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-190230

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCG 671
      ||||| ||||| |||||
Db 3 GCGCGCGCGCGCGCG 18

RESULT 3402
US-10-310-914A-191791
; Sequence 191791, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT FILING DATE: 2002-12-06
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; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 191791
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-191791

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGG 671
Db 3 GGAGCGCGCGCGCGG 18

RESULT 3403
US-10-310-914A-194950
; Sequence 194950, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 194950
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-194950

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 68.8%; Pred. No. 1.8e+03;
Matches 11; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 2251 CCAGTGTCTCACACT 2266
Db 2 CCAGUGUCUCACACUU 17

RESULT 3404
US-10-310-914A-195855/c
; Sequence 195855, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 195855
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-195855

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 660 CGCGCGCGCGCGCGG 675
Db 16 CGCGCGCGCGCGCGG 1
```

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RESULT 3405
US-10-310-914A-206297
; Sequence 206297, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 206297
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-206297

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 81.2%; Pred. No. 1.8e+03;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 208 GGGGGTGGGGTGGGG 223
Db 3 GGGGGUGGGUGGGAG 18

RESULT 3406
US-10-310-914A-224574/c
; Sequence 224574, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 224574
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-224574

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2665 CACCCCTCTCTCTTC 2680
Db 17 CACCCCTCTCTCTTC 2

RESULT 3407
US-10-310-914A-227990
; Sequence 227990, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
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; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 227990  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-227990

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 56.2%; Pred. No. 1.8e+03;  
Matches 9; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 294 CCTCCTCCTCTCTC 309  
||:|:|:|:|:|:|:  
Db 1 CCUCCUCCUCCUC 16

RESULT 3408  
US-10-310-914A-232264/c  
; Sequence 232264, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087, 0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 232264  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-232264

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 658 AGCGCGCGCGCGGG 673  
|||:|:|:|:|:|:|:  
Db 17 AGAGCGCGCGCGGG 2

RESULT 3409  
US-10-310-914A-237874  
; Sequence 237874, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087, 0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 237874  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-237874

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 62.5%; Pred. No. 1.8e+03;  
Matches 10; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 291 CCTCCTCCTCTCTC 306  
|||:|:|:|:|:|:|:  
Db 3 CCCCCUCCUCCUC 18

RESULT 3410  
US-10-310-914A-238171/c  
; Sequence 238171, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087, 0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 238171  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-238171

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGCGCGCGCGGG 674  
|||:|:|:|:|:|:|:  
Db 17 GCGCGCGCGCGGG 2

RESULT 3411  
US-10-310-914A-242619  
; Sequence 242619, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087, 0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 242619  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-242619

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 75.0%; Pred. No. 1.8e+03;  
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 2270 CTCCTTAAACACAG 2285  
|:|:|:|:|:|:|:  
Db 2 CUCUCAAACACAG 17

RESULT 3412  
US-10-310-914A-242670  
; Sequence 242670, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087, 0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 242670  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-242670

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 75.0%; Pred. No. 1.8e+03;  
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 2270 CTCCTTTAAACACAG 2285  
|:|:| | | | | | | | | | | | | | | | | |  
Db 2 CUCUUCACACACAG 17

## RESULT 3413

US-10-310-914A-250729/c  
; Sequence 250729, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 250729  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-250729

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 209 GGGGTGGGGTGGGGG 224  
| | | | | | | | | | | | | | | | | |  
Db 17 GGGGTGGGGTGGGGG 2

## RESULT 3414

US-10-310-914A-264662/c  
; Sequence 264662, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 264662  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-264662

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2328 GTCTCACCCTCTCTT 2343  
| | | | | | | | | | | | | | | | | |  
Db 16 GTCTCACCCTCTCTT 1

## RESULT 3415

US-10-310-914A-264921/c  
; Sequence 264921, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 264921  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-264921

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 113 CTGGTCTTCACCTCT 128  
| | | | | | | | | | | | | | | | | |  
Db 16 CTGGTCTTCACCTCT 1

## RESULT 3416

US-10-310-914A-272978/c  
; Sequence 272978, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 272978  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-272978

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 650 GCGGCGCAGCGCGCG 665  
| | | | | | | | | | | | | | | | | |  
Db 16 GCGGCGCAGCGCGCG 1

## RESULT 3417

US-10-310-914A-275580  
; Sequence 275580, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 275580

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; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-275580

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 81.2%; Pred. No. 1.8e+03;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 207 GGGGGTGGGGTGGG 222
      ||| ||:||||:||||
Db 2 GGGAGGUGGGGUGGG 17

RESULT 3418
US-10-310-914A-276784/c
; Sequence 276784, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 276784
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-276784

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 660 CGGCGGCGGGGGGGC 675
      ||| ||||| |||||
Db 17 CGGCGGCGGGGAGGC 2

RESULT 3419
US-10-310-914A-277033/c
; Sequence 277033, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 277033
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-277033

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 650 GCGGACGACGGCGGC 665
      ||| ||||| |||||
Db 16 GCGGACGCGCGGCGG 1

RESULT 3420
US-10-310-914A-277033/c
; Sequence 277033, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 277033
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-277033

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 357 GAGGCGAGCGGCGGCC 372
      ||| ||||| |||||
Db 3 GAGGCGAGCGGCGGCC 18

RESULT 3422
US-10-310-914A-288745/c
; Sequence 288745, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 288745
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-288745

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 656 GCAGCGCGGCGGCGG 671
      ||| ||||| |||||
Db 16 GCGGCGGCGGCGGCGG 1

RESULT 3421
US-10-310-914A-286468
; Sequence 286468, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 286468
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-286468

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 357 GAGGCGAGCGGCGGCC 372
      ||| ||||| |||||
Db 3 GAGGCGAGCGGCGGCC 18

RESULT 3422
US-10-310-914A-288745/c
; Sequence 288745, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 288745
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-288745
```

; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-288745

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1121 TTACCACTCTCTCCCT 1136  
|||||  
Db 16 TTACCACTCTCTCCCT 1

## RESULT 3423

US-10-310-914A-298797/c  
; Sequence 298797, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 298797

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-298797

## Query Match

Best Local Similarity 93.8%; Score 14.4; DB 1; Length 18;

Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 270 CTGCTCTCTCTCTCTC 285

|||||  
Db 16 CGGCTCTCTCTCTCTC 1

## RESULT 3424

US-10-310-914A-317202/c

; Sequence 317202, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 317202

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-317202

## Query Match

Best Local Similarity 93.8%; Score 14.4; DB 1; Length 18;

Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCG 671

|||||  
Db 16 GCGCGCGCGCGCGCG 1

## RESULT 3425

US-10-310-914A-322050

; Sequence 322050, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 322050

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-322050

## Query Match

Best Local Similarity 81.2%; Score 14.4; DB 1; Length 18;

Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2083 CCCCTGGCTCGGCC 2098

|||||  
Db 3 CCCUGGCCUCAGCCC 18

## RESULT 3426

US-10-310-914A-322831/c

; Sequence 322831, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 322831

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-322831

## Query Match

Best Local Similarity 93.8%; Score 14.4; DB 1; Length 18;

Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 631 GCGCGCGTGCAGCA 646

|||||  
Db 16 GCGCGCGAGCAGCA 1

## RESULT 3427

US-10-310-914A-324373/c

; Sequence 324373, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiller, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 324373

; LENGTH: 18

; TYPE: RNA

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; ORGANISM: Human
US-10-310-914A-324373

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      656 GCAGCGCGCGCGCGCG 671
Db      16 GCGCGCGCGCGCGCG 1

RESULT 3428
US-10-310-914A-329165/c
; Sequence 329165, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 329165
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-329165

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      656 GCAGCGCGCGCGCGCG 671
Db      16 GCGCGCGCGCGCGCG 1

RESULT 3429
US-10-310-914A-329166/c
; Sequence 329166, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 329166
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-329166

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      656 GCAGCGCGCGCGCGCG 671
Db      16 GCGCGCGCGCGCGCG 1

RESULT 3430
US-10-310-914A-335685
; Sequence 335685, Application US/10310914A

; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 335685
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-335685

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      656 GCAGCGCGCGCGCGCG 671
Db      16 GCGCGCGCGCGCGCG 1

RESULT 3431
US-10-310-914A-339019/c
; Sequence 339019, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 339019
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-339019

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      656 GCAGCGCGCGCGCGCG 671
Db      16 GCGCGCGCGCGCGCG 1

RESULT 3432
US-10-310-914A-339020/c
; Sequence 339020, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 339020
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-339020
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US-10-310-914A-339020

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGG 671  
DB 16 GCGGCGCGCGCGCGG 1

RESULT 3433

US-10-310-914A-340844/c  
; Sequence 340844, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 340844

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-340844

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 903 CCGGGGTGCGCGCAGG 918  
DB 16 CCGGGGTGCGCGCAGT 1

RESULT 3434

US-10-310-914A-344554/c  
; Sequence 344554, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 344554

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-344554

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 269 CTGCTCTCTCTCTCT 284  
DB 16 CCTCTCTCTCTCTCT 1

RESULT 3435

US-10-310-914A-346348  
; Sequence 346348, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 346348

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-346348

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 62.5%; Pred. No. 1.8e+03;  
Matches 10; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 291 CCTCTCTCTCTCTCT 306  
DB 1 CCUCGCGCCUUCUC 16

RESULT 3436

US-10-310-914A-347490

; Sequence 347490, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 347490

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-347490

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 660 CGCGCGCGCGCGGC 675  
DB 3 CGCGCGCGCGCGGC 18

RESULT 3437

US-10-310-914A-348258/c

; Sequence 348258, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 348258

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-348258

```
Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1329 TGTCAGAACTGCTC 1344
    ||| ||||| |||||
Db 18 TGTCAGAACTGCTC 3

RESULT 3438
US-10-310-914A-358274
; Sequence 358274, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 358274
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-358274

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 87.5%; Pred. No. 1.8e+03;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 898 GGGGGCGGGGGTGGCG 913
    ||| ||||| |||
Db 2 GGGGGCGAGGUGGCG 17

RESULT 3439
US-10-310-914A-360333/c
; Sequence 360333, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 360333
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-360333

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 291 CCTCCTCTCTCTCTC 306
    ||| ||||| |||||
Db 16 CCTCCTCTCTCTCTC 1

RESULT 3440
US-10-310-914A-360349/c
; Sequence 360349, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
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; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 360349
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-360349

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 291 CCTCCTCTCTCTCTC 306
    ||| ||||| |||||
Db 17 CCTCCTCTCTCTCTC 2

RESULT 3441
US-10-310-914A-365198/c
; Sequence 365198, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 365198
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-365198

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5 GCTTCTCTCTCTTCT 20
    ||| ||||| |||||
Db 17 GCTTCTCTCTTCT 2

RESULT 3442
US-10-310-914A-368007
; Sequence 368007, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 368007
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-368007
```



```
Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 87.5%; Pred. No. 1.8e+03;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2073 CCTCACCCAGCCCTG 2088
||:|||||
3 CCUCACCCAGCCCG 18

RESULT 3443
US-10-310-914A-368179
; Sequence 368179, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 368179
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-368179

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGG 671
||:|||||
3 GCAGCGCGCGCGCGG 18

RESULT 3444
US-10-310-914A-369289/c
; Sequence 369289, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 369289
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-369289

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 763 GTCTGTGGCTCTCT 778
||:|||||
17 GTCTGTGGCTCTCT 2

RESULT 3445
US-10-310-914A-370344/c
; Sequence 370344, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
```

```
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 370344
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-370344

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 208 GGGGGTGGGTGGGG 223
||:|||||
17 GGGGGTGGAGTGGGG 2

RESULT 3446
US-10-310-914A-371064/c
; Sequence 371064, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 371064
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-371064

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 270 CTGCCTCTCTCTCTC 285
||:|||||
16 CCGCCTCTCTCTCTC 1

RESULT 3447
US-10-310-914A-376161
; Sequence 376161, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 376161
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-376161

Query Match      0.5%; Score 14.4; DB 1; Length 18;
```

Best Local Similarity 87.5%; Pred. No. 1.8e+03;  
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 898 GGGGGGGGGGTGGCG 913  
||||| |||||:||||  
Db 2 GGGGGAGGGGGGCG 17

RESULT 3448  
US-10-310-914A-378479  
; Sequence 378479, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 378479  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-378479

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 87.5%; Pred. No. 1.8e+03;  
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1971 CAGCCCCCTGCCCG 1986  
|||||:|||||  
Db 1 CAGGCCCCCGGCCCG 16

RESULT 3449  
US-10-310-914A-381492/c  
; Sequence 381492, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 381492  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-381492

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 644 GCAGCAGCGCAGCAG 659  
|||||:|||||  
Db 16 GCAGCAGCAGCAG 1

RESULT 3450  
US-10-310-914A-383998  
; Sequence 383998, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 383998  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-383998

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 87.5%; Pred. No. 1.8e+03;  
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2730 ACCTGGGACCTGCC 2745  
|||||:|||||  
Db 2 ACCUGGGACCGCCCG 17

RESULT 3451  
US-10-310-914A-386252/c  
; Sequence 386252, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 386252  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-386252

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGCGCGCGCGCGGG 674  
|||||:|||||  
Db 16 GCGCGCGCGCGCGGG 1

RESULT 3452  
US-10-310-914A-390932/c  
; Sequence 390932, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 390932  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-390932

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;



QY 659 GCGGCGGCGGCGG 674  
Db 1 GCGGCGGCGGCGG 16

RESULT 3458  
US-10-310-914A-436156/c  
; Sequence 436156, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 436156  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-436156

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2078 CCCAGCCCCCTGCGCTC 2093  
Db 16 CCCAACCCCTGGCCTC 1

RESULT 3459  
US-10-310-914A-438752/c  
; Sequence 438752, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 438752  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-438752

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 289 CACCTCCTCCTCCTTC 304  
Db 18 CCCCTCCTCCTCCTTC 3

RESULT 3460  
US-10-310-914A-439689/c  
; Sequence 439689, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 439689  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-439689

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGG 671  
Db 16 GCGGCGGCGGCGGCGG 1

RESULT 3461  
US-10-310-914A-456451/c  
; Sequence 456451, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 456451  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-456451

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 645 CAGCAGCGCGCAGCAGC 660  
Db 17 CAGCAGCAGCAGCAGC 2

RESULT 3462  
US-10-310-914A-463791/c  
; Sequence 463791, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 463791  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-463791

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;





Dbb 3 GCGGCGGCGGCGGCGG 18

## RESULT 3473

US-10-310-914A-523671  
; Sequence 523671, Application US/10310914A  
; Publication No. US20060003322A1

; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 523671

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-523671

Query Match 0.5%; Score 14.4; DB 1; Length 18;

Best Local Similarity 87.5%; Pred. No. 1.8e+03;

Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 209 GGGGCGGCGGCGGCGG 224

|||||:|||||

3 GGGGCGGCGGCGGCGG 18

## RESULT 3474

US-10-310-914A-533505

; Sequence 533505, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 533505

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-533505

Query Match 0.5%; Score 14.4; DB 1; Length 18;

Best Local Similarity 81.2%; Pred. No. 1.8e+03;

Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2081 AGCCCGCTGCGCGG 2096

|||||:|||||

1 AGCCCGGCGGCGGCGG 16

## RESULT 3475

US-10-310-914A-53720/c

; Sequence 53720, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 53720

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-53720

Query Match 0.5%; Score 14.4; DB 1; Length 18;

Best Local Similarity 93.8%; Pred. No. 1.8e+03;

Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 9 CTCTGTCTTCTGGGG 24

|||||:|||||

16 CTCTGTCTTCTGGGG 1

## RESULT 3476

US-10-310-914A-538107/c

; Sequence 538107, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 538107

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-538107

Query Match 0.5%; Score 14.4; DB 1; Length 18;

Best Local Similarity 93.8%; Pred. No. 1.8e+03;

Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2662 CCCCACCCCTCTTCC 2677

|||||:|||||

16 CCCCACCCCTCTTCC 1

## RESULT 3477

US-10-310-914A-546958/c

; Sequence 546958, Application US/10310914A

; Publication No. US20060003322A1

; GENERAL INFORMATION:

; APPLICANT: Bentwich, Isaac

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A

; CURRENT FILING DATE: 2002-12-06

; NUMBER OF SEQ ID NOS: 1388402

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 546958

; LENGTH: 18

; TYPE: RNA

; ORGANISM: Human

US-10-310-914A-546958

Query Match 0.5%; Score 14.4; DB 1; Length 18;

Best Local Similarity 93.8%; Pred. No. 1.8e+03;

Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 308 TCTCTTCCCCCTCCCC 323

|||||:|||||

17 TCTCTTCCCCCTCCCC 2

```
RESULT 3478
US-10-310-914A-547114/c
; Sequence 547114, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 547114
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-547114

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      656 GCAGCGCGCGCGCGCG 671
Db      16 GCGGCGCGCGCGCGCG 1

RESULT 3479
US-10-310-914A-547115/c
; Sequence 547115, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 547115
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-547115

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      656 GCAGCGCGCGCGCGCG 671
Db      16 GCGGCGCGCGCGCGCG 1

RESULT 3480
US-10-310-914A-548453
; Sequence 548453, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
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; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 548453
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-548453

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 81.2%; Pred. No. 1.8e+03;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      213 TGGGGTGGGGGGGAGG 228
Db      1  UGGGGUGUGGGGAGG 16

RESULT 3481
US-10-310-914A-549374/c
; Sequence 549374, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 549374
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-549374

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      209 GGGGTGGGGTGGGGGG 224
Db      17 GGGGAGGGGTGGGGGG 2

RESULT 3482
US-10-310-914A-556841/c
; Sequence 556841, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 556841
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-556841

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      306 CGTCTCTCTCCCTCC 321
Db      16 CTTCTCTCTCCCTCC 1
```



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RESULT 3483
US-10-310-914A-564448/c
; Sequence 564448, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 564448
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-564448

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 66 GCCTCAACTCTTGAG 81
Db 16 GCCTCAGCCTTCTGAG 1

RESULT 3484
US-10-310-914A-581422/c
; Sequence 581422, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 581422
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-581422

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2254 GTGTCTCACACCTGTG 2269
Db 17 GTGGCTCACACCTGTG 2

RESULT 3485
US-10-310-914A-587697
; Sequence 587697, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
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; SEQ ID NO 587697
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-587697

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 910 GCGCAGGCGCCGGCG 925
Db 2 GCGCAGGCGCCGGCG 17

RESULT 3486
US-10-310-914A-594102/c
; Sequence 594102, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 594102
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-594102

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 960 GCAGCGCCTGGGCCCC 975
Db 18 GCAGCTCTGGGCCCC 3

RESULT 3487
US-10-310-914A-596204
; Sequence 596204, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 596204
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-596204

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 62.5%; Pred. No. 1.8e+03;
Matches 10; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 289 CACCTCCTCTCTTC 304
Db 2 CUCCUCCUCCUCCUUC 17
```

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RESULT 3488
US-10-310-914A-59937
; Sequence 59937, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 59937
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-59937

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 81.2%; Pred. No. 1.8e+03;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      210 GGGTGGGGTGGGGGG 225
Db      3   GGGUGGGUGGGAGGG 18
      |||:||||:|||||
      |||:||||:|||||

RESULT 3489
US-10-310-914A-603142/c
; Sequence 603142, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 603142
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-603142

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 81.2%; Pred. No. 1.8e+03;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      210 GGGTGGGGTGGGGGG 225
Db      3   GGGUGGGUGGGAGGG 18
      |||:||||:|||||
      |||:||||:|||||

RESULT 3490
US-10-310-914A-649496/c
; Sequence 649496, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 649496

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      291 CCTCCTCCTCCTTCTC 306
Db      16 CCTCCTCCTCCTTCCC 1
      |||||:|||||
      |||||:|||||

RESULT 3491
US-10-310-914A-667083
; Sequence 667083, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 667083
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-667083

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      210 GGGTGGGGTGGGGGG 225
Db      16 GGGTGGGGTGGGGTGG 1
      |||||:|||||
      |||||:|||||

RESULT 3492
US-10-310-914A-672136/c
; Sequence 672136, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 672136
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-672136

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 75.0%; Pred. No. 1.8e+03;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      19 CTGGGGTGGGGGGG 34
Db      2   CUGGGGUGGGGAGG 17
      |:||||:|||||
      |:||||:|||||

RESULT 3493
US-10-310-914A-672136/c
; Sequence 672136, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 672136
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-672136

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1557 CATCTTCCTGGCCCTG 1572
Db      16 CCTCTTCCTGGCCCTG 1
      |||||:|||||
      |||||:|||||

RESULT 3493
```

```
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-649496

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      210 GGGTGGGGTGGGGGG 225
Db      16 GGGTGGGGTGGGGTGG 1
      |||||:|||||
      |||||:|||||

RESULT 3491
US-10-310-914A-667083
; Sequence 667083, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 667083
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-667083

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 75.0%; Pred. No. 1.8e+03;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      19 CTGGGGTGGGGGGG 34
Db      2   CUGGGGUGGGGAGG 17
      |:||||:|||||
      |:||||:|||||

RESULT 3492
US-10-310-914A-672136/c
; Sequence 672136, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 672136
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-672136

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1557 CATCTTCCTGGCCCTG 1572
Db      16 CCTCTTCCTGGCCCTG 1
      |||||:|||||
      |||||:|||||

RESULT 3493
```

```

, , TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
, ,
, , TITLE OF INVENTION: uses thereof
, ,
, , FILE REFERENCE: 06087.0200.CPUS01
, ,
, , CURRENT APPLICATION NUMBER: US/10/310,914A
, ,
, , CURRENT FILING DATE: 2002-12-06
, ,
, , NUMBER OF SEQ ID NOS: 1388402
, ,
, , SOFTWARE: PatentIn version 3.3
, ,
, , SEQ ID NO 686609
, ,
, , LENGTH: 18
, ,

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; Sequence 704025, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 704025
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-704025

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      656 GCAGCGCGCGCGCGCG 671
      || |||||
Db      16 GCGGCGCGCGCGCGG 1

RESULT 3499
US-10-310-914A-705427
; Sequence 705427, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 705427
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-705427

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      656 GCAGCGCGCGCGCGCG 671
      || |||||
Db      16 GCGGCGCGCGCGCGG 1

RESULT 3500
US-10-310-914A-710505/c
; Sequence 710505, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 710505
; LENGTH: 18
; TYPE: RNA
US-10-310-914A-710505/c
```

```
; ORGANISM: Human
US-10-310-914A-710505

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      656 GCAGCGCGCGCGCGCG 671
      || |||||
Db      16 GCGGCGCGCGCGCGG 1

RESULT 3501
US-10-310-914A-715790
; Sequence 715790, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 715790
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-715790

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      659 GCGGCGCGCGCGCGG 674
      || |||||
Db      3 GCGGCGCGCGCGGAG 18

RESULT 3502
US-10-310-914A-716986/c
; Sequence 716986, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 716986
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-716986

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      210 GGGTGGGGTGGGGG 225
      || |||||
Db      17 GGGTGGGGTGGGGTGG 2

RESULT 3503
US-10-310-914A-716987/c
; Sequence 716987, Application US/10310914A
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; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 716987
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-716987

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 210 GGGTGGGGTGGGGGGG 225
Db 17 GGGTGGGGTGGGGTGG 2

RESULT 3504
US-10-310-914A-717575/c
; Sequence 717575, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 717575
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-717575

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGCG 671
Db 16 GCGGCGCGCGCGCGCG 1

RESULT 3505
US-10-310-914A-719754
; Sequence 719754, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 719754
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-719754

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGCG 671
Db 16 GCGGCGCGCGCGCGCG 1

RESULT 3506
US-10-310-914A-733346
; Sequence 733346, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 733346
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-733346

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGCG 671
Db 3 GCGGCGCGCGCGCGCG 18

RESULT 3507
US-10-310-914A-737963
; Sequence 737963, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 737963
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-737963

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 899 GGGGCGGGGGTGGCGC 914
Db 3 GGGGCGGGGGTGGCGC 18

RESULT 3508
US-10-310-914A-744936
; Sequence 744936, Application US/10310914A
; Publication No. US20060003322A1
```

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US-10-310-914A-719754

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 81.2%; Pred. No. 1.8e+03;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 210 GGGTGGGGTGGGGGGG 225
Db 1 GGUUGGGGUGGGGGGG 16

RESULT 3506
US-10-310-914A-733346
; Sequence 733346, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 733346
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-733346

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGCG 671
Db 3 GCGGCGCGCGCGCGCG 18

RESULT 3507
US-10-310-914A-737963
; Sequence 737963, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 737963
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-737963

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 899 GGGGCGGGGGTGGCGC 914
Db 3 GGGGCGGGGGTGGCGC 18

RESULT 3508
US-10-310-914A-744936
; Sequence 744936, Application US/10310914A
; Publication No. US20060003322A1
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; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 744936
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
; ORGANISM: Human
US-10-310-914A-744936

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 87.5%; Pred. No. 1.8e+03;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 218 TGGGGGGGGGAGGAGG 233
      :||||||| |||||
Db 1 UGGGGGGGGGGCAGGG 16

RESULT 3509
US-10-310-914A-746204
; Sequence 746204, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 746204
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
; ORGANISM: Human
US-10-310-914A-746204

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 81.2%; Pred. No. 1.8e+03;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGG 224
      |||||:|||||
Db 1 GGGGUGGGGUGGGUG 16

RESULT 3510
US-10-310-914A-76027/c
; Sequence 76027, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 76027
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
; ORGANISM: Human
US-10-310-914A-76027
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Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 207 GGGGGGTGGGTGGGG 222
      |||||:|||||
Db 17 GGGGTGTGGGTGGGG 2

RESULT 3511
US-10-310-914A-762642/c
; Sequence 762642, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 762642
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
; ORGANISM: Human
US-10-310-914A-762642

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2482 CTCAGGGCCAGAGCC 2497
      |||||:|||||
Db 18 CTCAGGGCCAGAGAC 3

RESULT 3512
US-10-310-914A-765402
; Sequence 765402, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 765402
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
; ORGANISM: Human
US-10-310-914A-765402

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 81.2%; Pred. No. 1.8e+03;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 209 GGGGTGGGTGGGGG 224
      |||||:|||||
Db 3 GGGGUGGGGUGGGGG 18

RESULT 3513
US-10-310-914A-770498
; Sequence 770498, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
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; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 770498
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-770498

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2090 CCTCGGCGCCCGCC 2105
   |||||
Db 3 CCACGGCGCCCGCC 18

RESULT 3514
US-10-310-914A-788826
; Sequence 788826, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 788826
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-788826

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGG 671
   |||||
Db 3 GCGGCGCGCGCGCGG 18

RESULT 3515
US-10-310-914A-793158
; Sequence 793158, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 793158
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-793158
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Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 81.2%; Pred. No. 1.8e+03;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 209 GGGTGGGTGGGGG 224
   |||||
Db 2 GGGUGGGUGGGAGG 17

RESULT 3516
US-10-310-914A-798110
; Sequence 798110, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 798110
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-798110

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 81.2%; Pred. No. 1.8e+03;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2781 GGTGTCCCTGCCAGC 2796
   |||||
Db 2 GGUGGCCCGCCAGC 17

RESULT 3517
US-10-310-914A-802550/c
; Sequence 802550, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 802550
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-802550

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2665 CACCCCTCTCTTC 2680
   |||||
Db 18 CACCCCTCTCTTC 3

RESULT 3518
US-10-310-914A-808803/c
; Sequence 808803, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
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; APPLICANT: Shiler, Kvazat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 808803
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-808803

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGGCGGCGGCGGGG 674
      |||||
Db 16 GCGGCGGCGGCGAGG 1

RESULT 3519
US-10-310-914A-811533
; Sequence 811533, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 811533
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-811533

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 87.5%; Pred. No. 1.8e+03;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 214 GGGGTGGGCGGAGGC 229
      |||||
Db 3 GGGUGGGGCGGGAUC 18

RESULT 3520
US-10-310-914A-821841
; Sequence 821841, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 821841
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-821841

Query Match      0.5%; Score 14.4; DB 1; Length 18;
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Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGG 671
      |||||
Db 3 GCGGCGGCGGCGGCGG 18

RESULT 3521
US-10-310-914A-823601
; Sequence 823601, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 823601
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-823601

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 75.0%; Pred. No. 1.8e+03;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 272 GCCTCTCTCTCTCCA 287
      |||||
Db 3 GCGUCGCGGCGGCGCA 18

RESULT 3522
US-10-310-914A-831167
; Sequence 831167, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; TITLE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 831167
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-831167

Query Match      0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 81.2%; Pred. No. 1.8e+03;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2662 CCCACCCCTCTTCC 2677
      |||||
Db 2 CCCACCCCGGCUCC 17

RESULT 3523
US-10-310-914A-851787/c
; Sequence 851787, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiler, Kvazat
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; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 851787
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-851787

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 662 GCGGCGGCGGGGCTG 677
Db 18 GCGGCGGCGGGGCGG 3

RESULT 3524
US-10-310-914A-851803/c
; Sequence 851803, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 851803
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-851803

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 662 GCGGCGGCGGGGCTG 677
Db 16 GCGGCGGCGGGGCGG 1

RESULT 3525
US-10-310-914A-854670
; Sequence 854670, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 854670
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-854670

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 87.5%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 255 GCGCGCCACCACTCC 270
Db 3 GCGCCUCCACCACTCC 18

RESULT 3526
US-10-310-914A-867038/c
; Sequence 867038, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 867038
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-867038

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Best Local Similarity 93.8%; Pred. No. 1.8e+03;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 269 CCTGCTCTCTCTCTCT 284
Db 16 CCTGCTCTCTCTCTCT 1

RESULT 3527
US-10-310-914A-86788
; Sequence 86788, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
; FILE OF INVENTION: uses thereof
; FILE REFERENCE: 06087.0200.CPUS01
; CURRENT APPLICATION NUMBER: US/10/310,914A
; CURRENT FILING DATE: 2002-12-06
; NUMBER OF SEQ ID NOS: 1388402
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 86788
; LENGTH: 18
; TYPE: RNA
; ORGANISM: Human
US-10-310-914A-86788

Query Match          0.5%; Score 14.4; DB 1; Length 18;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 209 GGGGTGGGGTGGGGG 224
Db 2 GGGGGGGGGGUGGGGGG 17

RESULT 3528
US-10-310-914A-882048/c
; Sequence 882048, Application US/10310914A
; Publication No. US20060003322A1
; GENERAL INFORMATION:
; APPLICANT: Bentwich, Isaac
; APPLICANT: Shiller, Kvuzat
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and
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; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 882048  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-882048

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGG 671  
Db 16 GCGCGCGCGCGCGG 1

RESULT 3529  
US-10-310-914A-88295  
; Sequence 88295, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 88295  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-88295

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGG 671  
Db 3 GCGCGCGCGCGCGG 18

RESULT 3530  
US-10-310-914A-886417  
; Sequence 886417, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 886417  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-886417

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 75.0%; Pred. No. 1.8e+03;  
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 309 CTCCTCCCTCCCG 324  
Db 2 CUCCUCCACUCCCG 17

RESULT 3531  
US-10-310-914A-898338  
; Sequence 898338, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 898338  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-898338

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2365 AGACAGACAGACAGAA 2380  
Db 1 AGACAGACACACAGAA 16

RESULT 3532  
US-10-310-914A-899519/c  
; Sequence 899519, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 899519  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-899519

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 658 AGCGCGCGCGCGG 673  
Db 18 AGCGCGCGCGCGG 3

RESULT 3533  
US-10-310-914A-909953/c  
; Sequence 909953, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; TITLE OF INVENTION: uses thereof

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 909953  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-909953

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2175 GCTCAGTGTGGGAC 2190  
DB 18 GCTCAGTGTGGGAC 3

RESULT 3534  
US-10-310-914A-913932  
; Sequence 913932, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 913932  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-913932

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 75.8%; Pred. No. 1.8e+03;  
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 283 CTCACCACTCTCTCC 298  
DB 2 CUCUACCACCUCC 17

RESULT 3535  
US-10-310-914A-915133  
; Sequence 915133, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 915133  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-915133

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 81.2%; Pred. No. 1.8e+03;  
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 207 GGGGGTGGGTGGG 222  
DB 1 GGGGGUUGGGUGGG 16  
RESULT 3536  
US-10-310-914A-920974  
; Sequence 920974, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and

; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 920974  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-920974

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 220 GGGGGAGGCGGGGC 235  
DB 2 GGGGGGUGGCGGGGC 17

RESULT 3537  
US-10-310-914A-956832/c  
; Sequence 956832, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 956832  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-956832

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2658 GTTCCCCACCCCTC 2673  
DB 17 GTTCCCTCCCTCC 2

RESULT 3538  
US-10-310-914A-969328/c  
; Sequence 969328, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat

; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01

; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 969328  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-969328

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 660 CGCGCGCGCGCGCGG 675  
DB 18 CGCGCGCGCGCGCGG 3

RESULT 3539  
US-10-310-914A-972969/c  
; Sequence 972969, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 972969  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-972969

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 270 CTCCTCTCTCTCTCTC 285  
DB 16 CCGCTCTCTCTCTCTC 1

RESULT 3540  
US-10-310-914A-978445  
; Sequence 978445, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 978445  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-978445

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGG 671

DB 3 GCAGCGCGCGCGCGG 18

RESULT 3541  
US-10-310-914A-982972/c  
; Sequence 982972, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 982972  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-982972

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 656 GCAGCGCGCGCGCGG 671  
DB 16 GCGCGCGCGCGCGG 1

RESULT 3542  
US-10-310-914A-983030/c  
; Sequence 983030, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A  
; CURRENT FILING DATE: 2002-12-06  
; NUMBER OF SEQ ID NOS: 1388402  
; SOFTWARE: PatentIn version 3.3  
; SEQ ID NO 983030  
; LENGTH: 18  
; TYPE: RNA  
; ORGANISM: Human  
US-10-310-914A-983030

Query Match 0.5%; Score 14.4; DB 1; Length 18;  
Best Local Similarity 93.8%; Pred. No. 1.8e+03;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 659 GCGCGCGCGCGCGGG 674  
DB 17 GCGCGCGCGCGCGGG 2

RESULT 3543  
US-10-310-914A-991937/c  
; Sequence 991937, Application US/10310914A  
; Publication No. US20060003322A1  
; GENERAL INFORMATION:  
; APPLICANT: Bentwich, Isaac  
; APPLICANT: Shiler, Kvuzat  
; TITLE OF INVENTION: Bioinformatically detectable group of novel regulatory genes and  
; FILE REFERENCE: 06087.0200.CPUS01  
; CURRENT APPLICATION NUMBER: US/10/310,914A



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